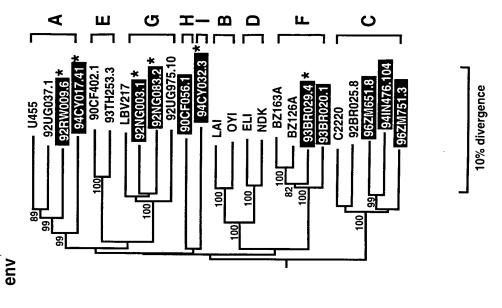
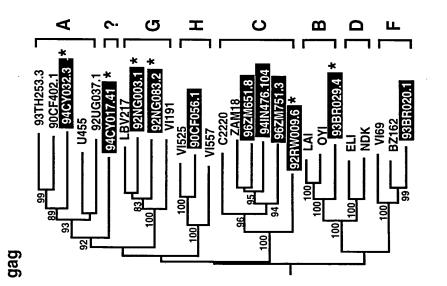




Fig. 1

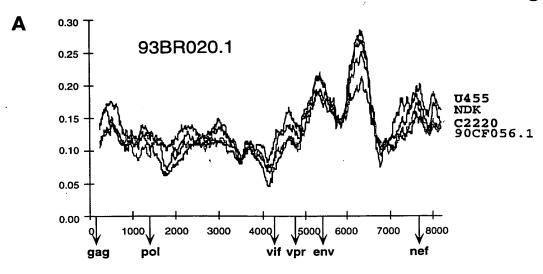
10% divergence

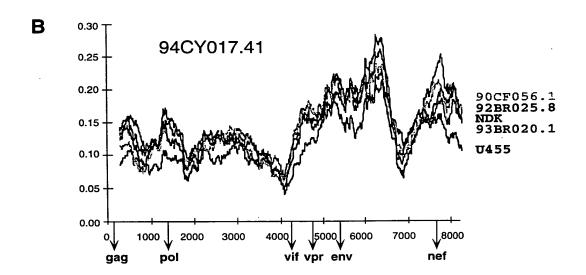


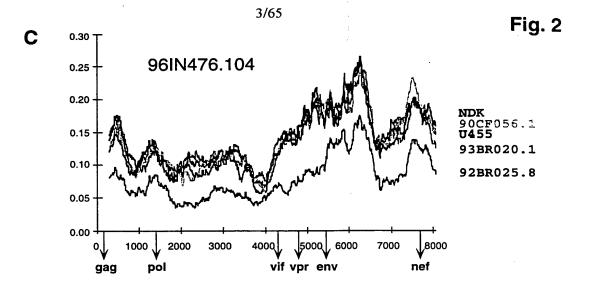


4

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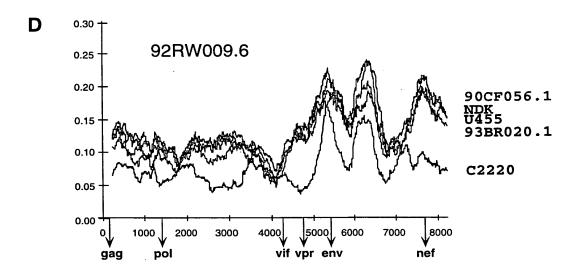
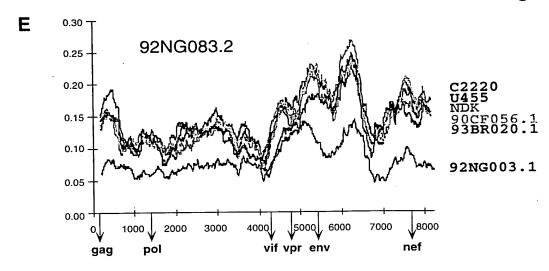
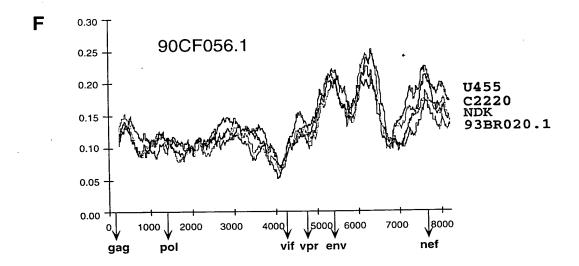
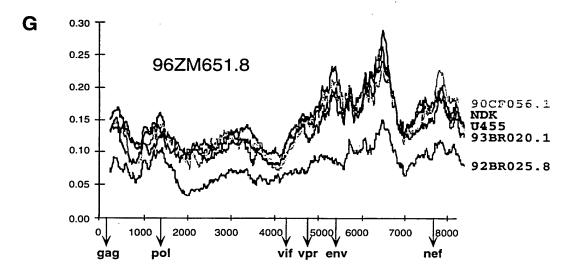


Fig. 2







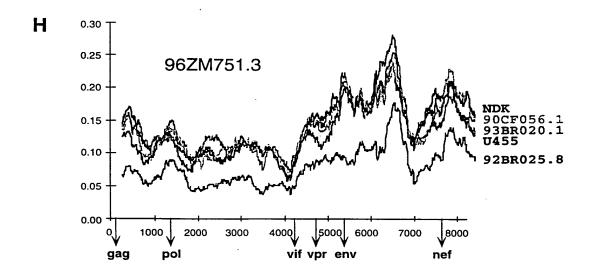
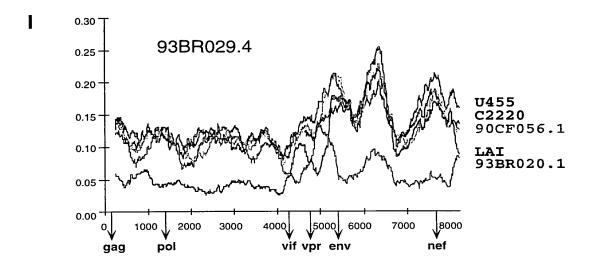
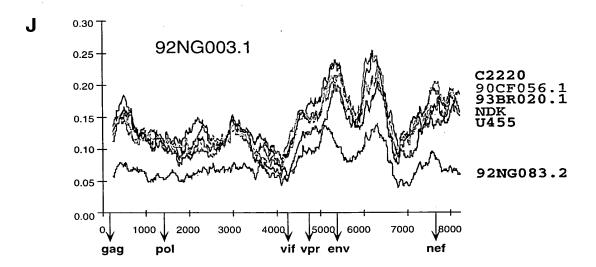


Fig. 2





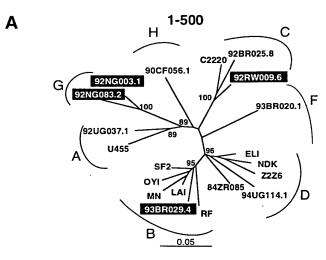
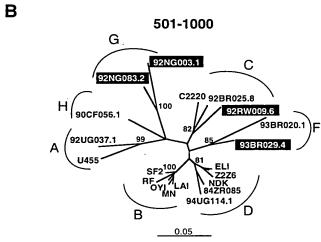
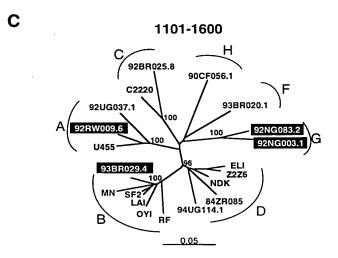


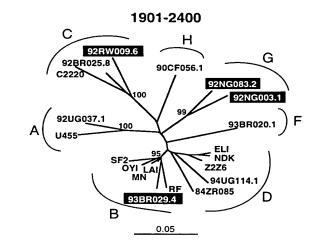
Fig. 3

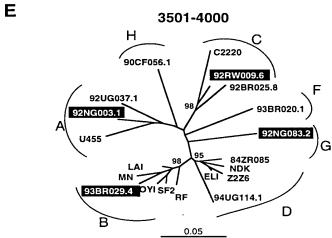




D

Fig. 3





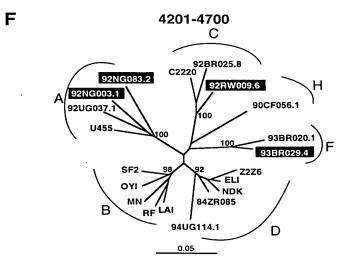


Fig. 3

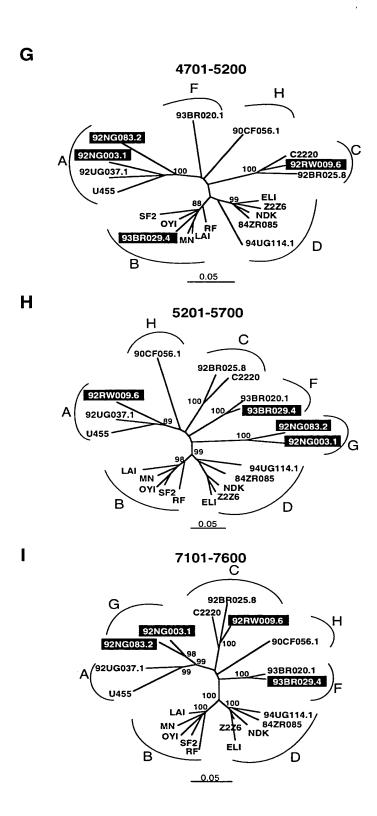


Fig. 4

Α 92RW009.6 Subtype C 100 Subtype A 80 60 40 20

В

0

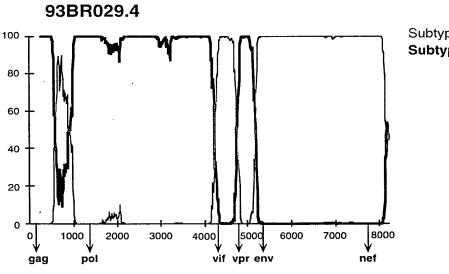
∳ gag

2000

1000

pol

3000



Subtype F Subtype B

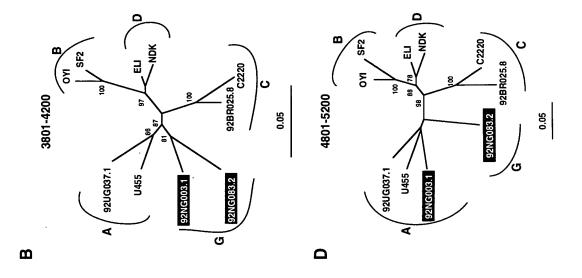
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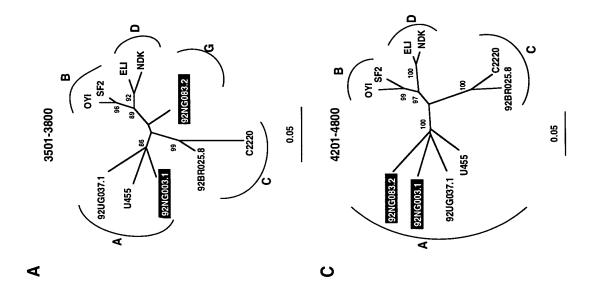
6000

5000

vit vpr env

7000





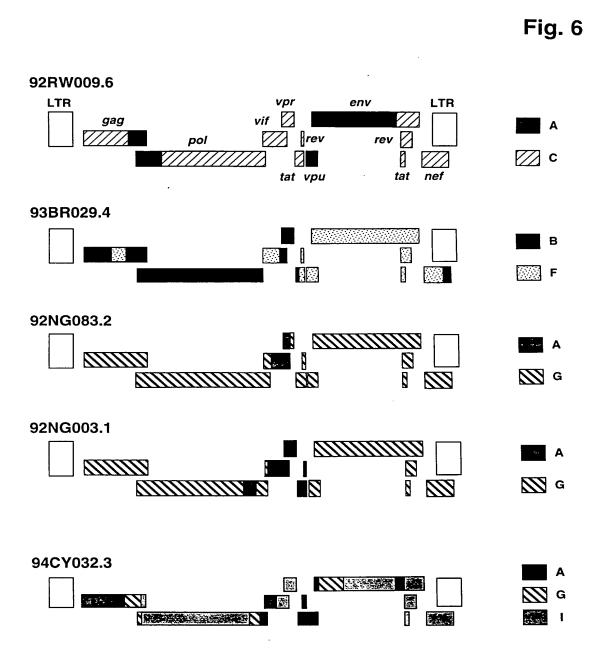


Fig. 7

tat (second exon)	(uc	frequency
CONSENSUS_A	P?PQTQG?.?TGPKESKKKVESKTETDRFD*	0/14
CONSENSUS_B	P?SQPRGD.PTGPKESKKKVERETETDP?D*	4/52
CONSENSUS_C	PLPQTRGD.PTGSEESKKKVESKTETDPFD*	0/11
CONSENSUS_D ELI 7276	PSSQPRGD.PTGPKE* 	11/15
NDK 92UG021.16 92UG024.2	* D	
	(* * *	

93ZR001.3 UG266A2 MAI,	-L	
K124A2 84ZR085.1 94UG114.1	* * * * * * * * * * * * * * * * * * *	
CONSENSUS_E	PLPIIRGN.PTDPKESKKEVASKAETDPCD*	6/0
CONSENSUS_F	PISQARGN.PTGPKESKKEVESKAKTDPCA*	0/4
CONSENSUS_G	PLPTTRGN.PTGPKESKKEV?SKTETDPFD*	8/0
CONSENSUS_H	PLSRTHGD.PTGPKEQKKEVASKTETDP*	0/1

<

Fig. 7

rev (second exon)	xon)	frequency
CONSENSUS_A	CONSENSUS_A PYP?PKG?.RQARKNRRRRWRARQRQIDSISERILSTCLGRPAEPVPLQLPP?ERLHLDCSEDCGTSGTQQSQG?ETGVGRPQVSVESSVILGSGTKN*	0/14
CONSENSUS_B	PPPSPEGT.RQARRNRRRWRERQRQIRSIS?WILSTYLGRSAEPVPLQLPPLERLTLDCSEDCGTSGTQGVGSPQILVESPAVLESGTKE*	0/52
CONSENSUS_C 93MW959.18 93MW965.26 93MW965.26 UG268A2 SM145A ZAM18A ZAM18A ZAM20A DJ259A DJ373A C2220 SE364A 92ENC25.8 92ENC25.8	PYPKPEGT. RQAR? NRRRWRARQRQ IHSISERILLSTCLGRPAEPVPLQLP PIERLHIDCSES?GTGGQQSQGTTGGVGSF*	15/15
CONSENSUS_D	PPPSPEGT.RQARRNRRRRWRARQRQIHSIGERILSTYLGRPEEPVPLQLPPLERLNLNC?EDCGTSGTQGVGSPQISVESPAVLDSGTEE↑	0/15
CONSENSUS_E	CONSENSUS_E P?PSSEGT.RQTRKNRRRRWRARQRQIRAISERILSTCLGRSTEPVPLQLPPLERLHLDCSEDCGTSGTQQSQGTETGVGRPQISGESSVILGPGTKN*	6/0
CONSENSUS_F	PY PK PEGT. RQARRNRRRRWRARQRQIREISERILSSCLGR PEEPV PLQLP PLERLHINCSEDC?QGAEEGVGSPQTSGESHAVLGSGTKE↑	0/4
CONSENSUS_G	PYPPPGGT.RQAR?NRRRRARRQRQIH?ISERILS?CLGRPAEPVPLQLPPLERLHLDCSEDSGTSGTQQSQGTETGVGGPQISVESSVVLGSG?KE*	1/8
CONSENSUS_H	CONSENSUS_H PCPEPTGT.RQARRNRRRRWRARQRQIREISERILTSCLGRPPEPVTLQLPPLERLTLNCSEDCGTSGEKGEGSPQISLESSTILGTGTKE*	0/1

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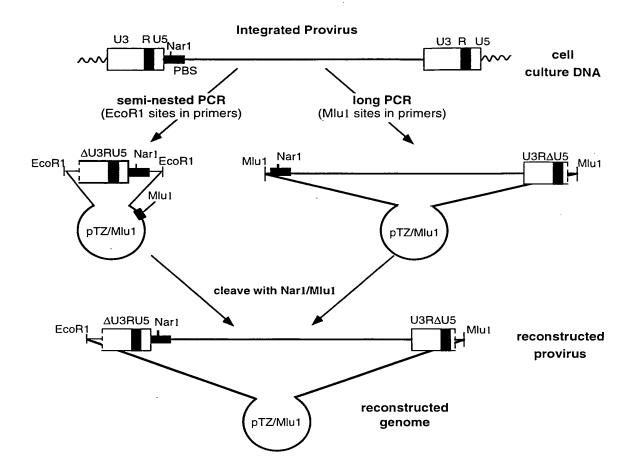
Fig. 7

ν		Frequency
CONSENSUS_A	M??LEI?AIVGLVVALI?AIVVW.TIVGI	0/13
CONSENSUS_B	MQSLQI?AIVALVVAAIIAIVVW.TIV?I	0/26
CONSENSUS_C 92BR025.8 C2220 SM145 UG268 DJ259 DJ373 SE364 94IN476.104 96ZM651.8	M? DLLAKVDYRL? VGALIVALIIAIVVW. TIAYI -LE-IGRIGV-IVIVIV-F	10/10
CONSENSUS_D	MQPL?ILAIAALVVALIIAIVVW.TIVFI	6/0
CONSENSUS_F	MSYLLAI?I?ALIVALIIAIVVW.TIAYI	0/4
CONSENSUS_G	MQ?LEI?AI?GLVVAFIAAIVVW.SIV?I	0/3
CONSENSUS_H	MYILG.LGIGALVVTFIIAVIVW.TIVYI	0/1

DOLEHLE LICESO

C

Fig. 8



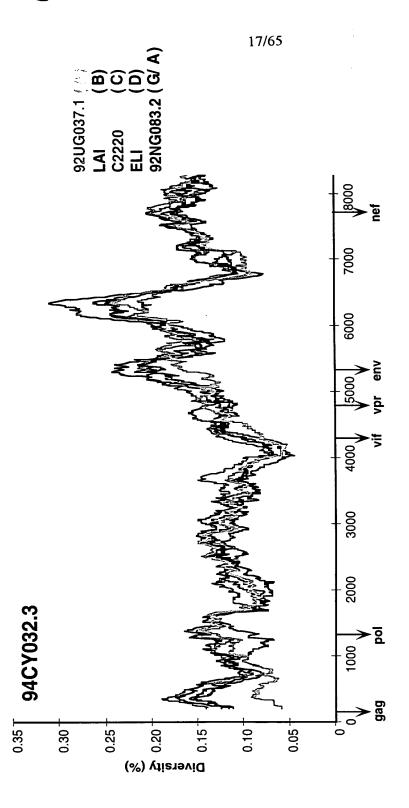


Fig. 9

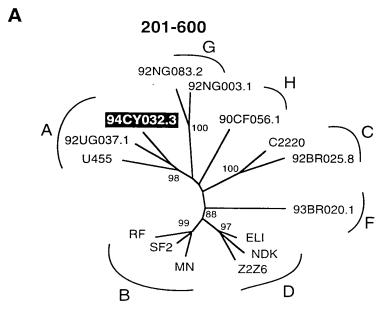
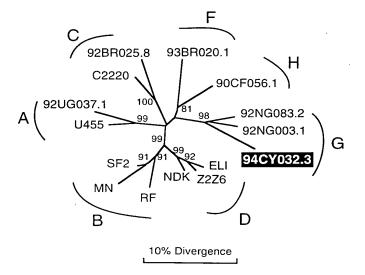


Fig. 10

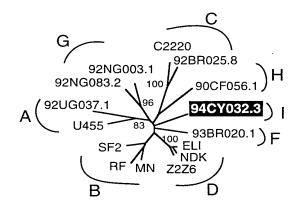
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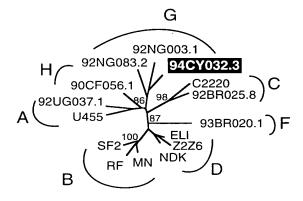


C Fig. 10

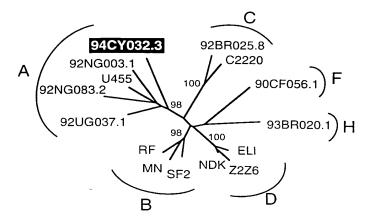
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D 3841-4240

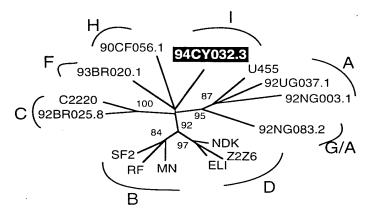


4241-4640



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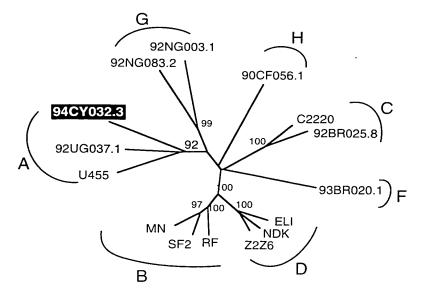
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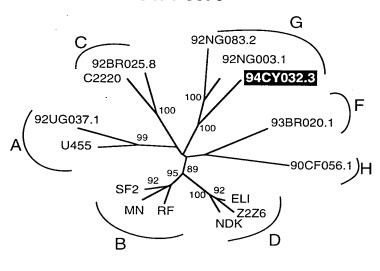
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Fig. 10



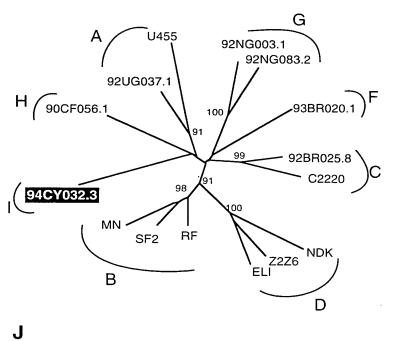
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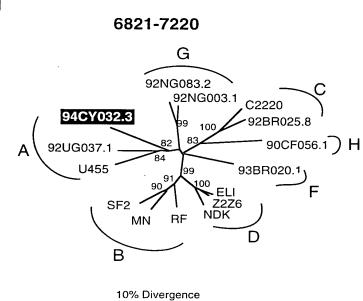
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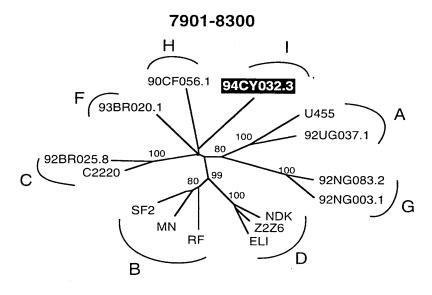


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Fig. 10







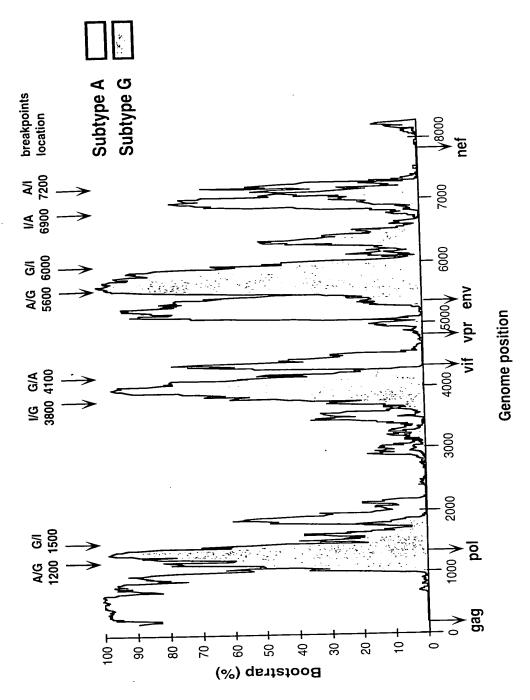
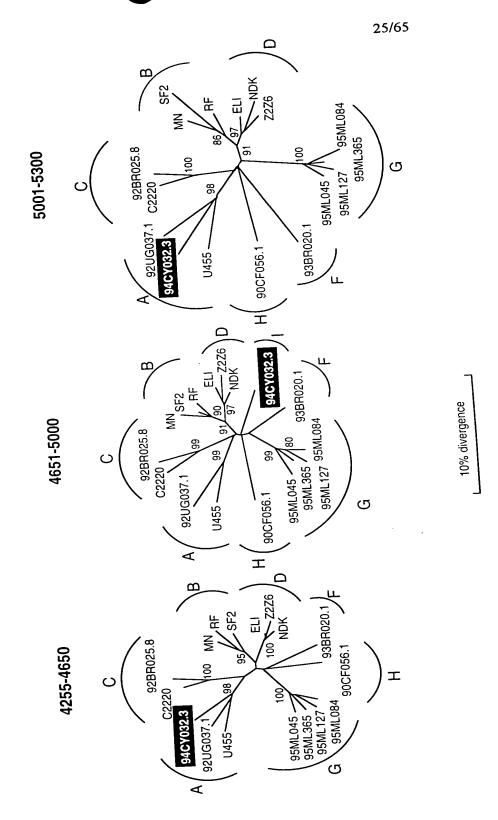


Fig. 12



93BR020.1	CTGAAAGCGAAAGTAA.ACCAGAGAAGAACTCTCGA	35
92NG083.2	ATGAAAGCGAAAGTTAATAGGGACTCATTT	57
90CF056.1	TTATT	36
92RW009.6		36
92NG003.1	TTGAAAGCGAAAGTTAACAGGGACTCTTT	57
93BR029.4		36
94CY032.3	TTGAAAGTGAAAGTTAATAGGACTCTTT	56
96ZM651.8		35
96ZM751.3	G	36
94CY017.41	TTGAAAAGCGAAAGTAACAGGGACTCTGTT	57
94IN476.104	GGT	36
00000000		93
93BR020.1 92NG083.2	CGCAGGACTCGGCTTGCTGAA.GTGCACACGGCAAGAGGCGAGA.GCGGCGACTGGTGAG	115
		94
90CF056.1 92RW009.6	GG	95
92NG003.1		115
93BR029.4		95
94CY032.3	AA	114
96ZM651.8		93
96ZM751.3	GG	94
94CY017.41		116
94IN476.104		94
	GAG start	
93BR020.1	TACGCCAAAATTTGACTAGCAGAGG.CTAGAAGGAGAGAGATGGGTGCGAGAG	145
92NG083.2		168
90CF056.1	GTTTG	149
92RW009.6		151
92NG003.1	G	169
93BR029.4	AATAAAATTTGG	154 168
94CY032.3	T-TTG	149
96ZM651.8 96ZM751.3	G	149
94CY017.41	TA-T-TT	171
94IN476.104	G	150
3111170.101		
93BR020.1	CGTCAGTATTAAGCGGGGGAAAATTAGATGCTTGGGAAAAAATTCGGTTAAGGCCGGGGG	205
		200
92NG083.2	TA	228
92NG083.2 90CF056.1		
	GA	228 209 211
90CF056.1		228 209 211 229
90CF056.1 92RW009.6		228 209 211 229 214
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		228 209 211 229 214 228
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		228 209 211 229 214 228 209
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		228 209 211 229 214 228 209 209
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		228 209 211 229 214 228 209 209
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		228 209 211 229 214 228 209 209
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		228 209 211 229 214 228 209 231 210
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		228 209 211 229 214 228 209 209 231 210
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		228 209 211 229 214 228 209 231 210
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	G. AAAGAAAAAATATAGACTAAAAACATCTAGTATGGGCAAGCAGGG. AGCTAGAACGATT	228 209 211 229 214 228 209 231 210
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		228 209 211 229 214 228 209 231 210 263 286 267 270
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		228 209 211 229 214 228 209 231 210 263 286 267 270 287
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		228 209 211 229 214 228 209 231 210 263 286 267 270 273
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	G. AAAGAAAAAATATAGACTAAAACATCTAGTATGGGCAAGCAGGG. AGCTAGAACGATTGGAAAAAAA-	228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286
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90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		228 209 211 229 209 231 210 263 286 267 270 287 273 286 267 267 289
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		228 209 211 229 214 228 209 231 210 263 267 270 287 273 267 267 267 268
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		228 209 211 228 209 209 231 210 263 286 267 270 287 273 286 267 267 268 328 328
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		228 209 211 229 209 209 231 210 263 286 267 273 286 267 267 289 268
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		228 209 211 229 209 209 231 210 263 286 267 270 287 273 286 267 267 289 268
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90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6		228 209 211 229 214 228 209 231 210 263 287 270 287 273 289 267 267 289 268 323 346 327 330 347
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286 267 267 289 268 323 346 327 330 331
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		228 209 211 224 228 209 231 210 263 286 267 270 287 273 286 267 289 268 324 334 333 346
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		228 209 211 229 214 228 209 231 210 263 267 273 287 267 267 267 267 267 333 346 327 333 347 333 343
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6 92NG09.6 92NG09.3 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3		228 209 211 229 214 228 209 231 210 263 267 270 287 273 286 267 267 267 267 267 267 267 267 267 26
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3		228 209 211 229 214 228 209 231 210 263 286 267 270 287 273 286 267 267 289 268

Fig. 13-1

93BR020.1	ACAACCATCCCTTCAGACAGGATCAGAAGAGCTCAAATCATTATATAATACAATAGCAGT	383
92NG083.2	GG-TCTAGT-GT-GAC	406
90CF056.1	GG-TAAAAT	387
92RW009.6	GG-TGAC	390
92NG003.1	GTCAGA-TTGAC	407
93BR029.4	GAGAT-GAT-G	393
94CY032.3	T-A-T-CA-AA-T-GT-GT-A-AC	406
96ZM651.8	G-TA-GGAT-GCCGAC	387
96ZM751.3	G-TCAC	387
94CY017.41	G-TCAAAT	409
94IN476.104	TG-TAAGAT-GGTCCGAC	388
93BR020.1	CCTCTATTATGTACATCAAAAGGTAGAGGTAAAAGACACCAAGGAGGCTTTAGAGAAGCT	443
92NG083.2	C-GAAACCG-AG-	466
90CF056.1		
	GC	447
92RW009.6	CA-	450
92NG003.1	AACG-AG-AG-	467
93BR029.4	AAAAAAA	453
94CY032.3	GG-GC	466
96ZM651.8	TACC-G-A-	447
96ZM751.3	TACCAAACCA	447
94CY017.41	C-GGGT	469
94IN476.104	TACA-	448
93BR020.1	AGAGGAAGAACAAAACGTCGGCAAAAGACACAGCAA	489
92NG083.2	GAAATGCAAG-A-TGGCAA-AG	515
90CF056.1	ATAAAA	496
92RW009.6	G	502
92NG003.1	GAAATGCAAG-AA-GGCAA-TG	516
93BR029.4	GAAA-AG	501
94CY032.3	GTGA-CAAG	515
96ZM651.8		505
96ZM751.3	A	499
94CY017.41	T	512
94IN476.104	GGCAAA-A-G	500
		200
		300
93BB020 1	GCTGA A A A A GG GCTCACTACA A A ATTA COCTATACTA CAGA ATCTTCA CGCA	
93BR020.1	GCTGAAAAAGGGGTCAGTCAAAATTACCCTATAGTACAGAATCTTCAGGGA	540
92NG083.2	AAGG-AACAGTAACCCACTGGCAAG	540 575
92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAAT	540 575 556
92NG083.2	AAGG-AACAGTAACCCACTGGCAAG	540 575
92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAAT	540 575 556
92NG083.2 90CF056.1 92RW009.6	AAGG-AACAGTAACCCACTGGCAAG -A-A-GG-AAAGACAACAATGGCAG -ACAGG-AAA	540 575 556 553 576
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGAG -ACAGG-AAA	540 575 556 553 576 561
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAA	540 575 556 553 576 561 575
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAA	540 575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGGCAAG -ACAGG-AAA	540 575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGGCAAG -A-A-GG-AAAGACAACAATGGCAAG -ACAGG-AAA	540 575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCAAG -A-A-GG-AAAGACAACAATGGCAAG -ACAGG-AAA	540 575 556 553 576 561 575 553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	AAGG-AACAGTAACCCACTGGCAAG -A-A-GGAAAGACAACAATGGCAAG -ACAGG-AAA	540 575 556 553 576 561 575 553 547 566
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 547 566
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 547 566 548
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 547 566 548 600 635 616 613
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 547 566 548 600 635 616 613 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 547 566 548 600 635 616 613 621
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 547 566 648 600 635 616 636 631 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 548 600 635 616 613 636 621 621 635
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 547 566 648 600 635 616 636 631 636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 548 600 635 616 613 636 621 621 635
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 547 566 635 613 621 633 613 621 633 613 626
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41	AAGG-AACAGTAACCCACTGG	540 575 556 553 576 561 575 553 547 566 548 6035 616 613 636 621 635 635
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAACAATGCAG -ACA-GG-AAAGCA-AG -G-AGG-AACAGCCAA-TCTGAGCA-AG AACAC-GG-AACAACAGCCACGC	540 575 556 553 576 561 575 547 566 548 600 635 616 636 621 635 613 607 626
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.3 94CY017.41 94IN476.104 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAAGCA-AG -ACA-GG-AAAGCA-AG -G-A-GG-AACAGCCAA-T-CTG-AGCA-AG AACAC-GG-AACAACAGCCA	540 575 556 553 576 561 575 553 548 600 635 616 613 636 621 621 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAAGCA-AG -ACA-GG-AAAG-AGCA-AG -G-A-GG-AACAGCCAAT-CTGGCA-AG AACAC-GG-AACAACAGCCAA	540 575 556 553 576 561 575 547 566 548 606 635 6113 621 636 621 635 6107 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-A-G -A-A-GG-AAAGACAACAAGCA-A-G -ACA-GG-AAAGCA-A-G -G-A-GG-AACAGCCAA-T-CTGGCA-A-G AACAC-GG-AACAACGCCAACG -C-C-GG-ACAACAGCCAACGAGCA-A-G -C-C-GG-TAGCAGCAATCG-AGCA-A-G -AC-G	540 575 556 553 576 561 575 553 548 600 635 616 613 636 621 621 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-AG A-A-GG-AAAGACAAAGCA-A-G ACAGG-AAAG-AGCA-AG G-AGG-AACAGCCAA-TC	540 575 556 553 576 561 575 547 566 548 606 635 6113 621 636 621 635 6107 626 608
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	AAGG-AACAGTAACCCACTGGCA-A-G -A-A-GG-AAAGACAACAAGCA-A-G -ACA-GG-AAAGCA-A-G -G-A-GG-AACAGCCAA-T-CTGGCA-A-G AACAC-GG-AACAACGCCAACG -C-C-GG-ACAACAGCCAACGAGCA-A-G -C-C-GG-TAGCAGCAATCG-AGCA-A-G -AC-G	540 575 556 553 576 561 575 547 566 635 613 621 635 613 626 608 695 676
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG003.2 92NG003.2 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6	AAGG-AACAGTAACCCACTGGCA-AG -A-A-GG-AAAGACAAGCA-AG -ACA-GG-AAAGCA-AG -G-A-GG-AACAGCCAGCCAA-TC	540 575 556 553 576 561 575 547 566 613 636 613 636 613 636 613 636 607 620 609 609 676 673 696
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.4 94CY017.41 94IN476.104 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 96ZM751.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	AAGG-AACAGTAACCCA CTGGCA-AGGGGGGGGG	540 575 556 553 576 561 575 547 568 603 613 636 613 636 621 635 607 626 608 6695 673 674 673 681
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	AAGG-AACAGTAACCCA C T G GCA - A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - G A - A - G A - G A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G A - A - G <	540 575 556 5576 561 575 547 566 635 613 621 633 621 626 635 613 626 673 626 673 695 695
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.3 96ZM751.3 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGGCA-A-G-AA-GG-AAAGGCAACAATGCA-A-G-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-G-G-AACAGCAGCAACGG	540 575 556 5576 561 575 547 566 613 621 635 613 621 626 608 6695 673 696 695 673 695 673
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCA-A-G-A-A-GG-AAAGACAACAAG-AA-GG-AA-GG-AA-GG-AA-GG-AA-A-G-GCA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-G-A-GCA-A-G-G-AACAGCAA-TC	540 575 556 5576 561 575 547 566 635 613 621 633 621 626 635 613 626 673 626 673 695 695
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.3 96ZM751.3 94CY017.41 94IN476.104	AAGG-AACAGTAACCCACTGGCA-A-G-AA-GG-AAAGGCAACAATGCA-A-G-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-GG-AA-G-G-AACAGCAGCAACGG	540 5756 5566 5766 5755 547 5666 635 6616 635 6616 635 6616 673 6696 676 673 673 673 673
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY032.3 96ZM651.8 96ZM751.3	AAGG-AACAGTAACCCACTGGCA-A-G-A-A-GG-AAAGACAACAAG-AA-GG-AA-GG-AA-GG-AA-GG-AA-A-G-GCA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-GA-A-G-G-A-GCA-A-G-G-AACAGCAA-TC	540 575 556 553 576 561 575 548 600 635 616 613 621 635 613 607 608 695 673 695 695 695 695 695 695 695 695

Fig. 13-2

93BR020.1	CCACAAGATTTAAACACCATGTTAAATACAGTGGGGGGACATCAAGCAGCCATGCAAATG	720
92NG083.2		755
90CF056.1	CTG-TC	736
92RW009.6	C	733 756
92NG003.1		741
93BR029.4	TT	755
94CY032.3		733
96ZM651.8		727
96ZM751.3	C	746
94CY017.41	TTCTTT	728
94IN476.104	CTCT	, 20
	TTAAAAGACACCATCAATGAGGAGGCTGCAGAATGGGACAGATTACATCCAACACAGGCA	780
93BR020.1	TTAAAAGACACCATCAATGAGGAGGCTGCAGAATGGGACAGATTACATCCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACATCAACAA	815
92NG083.2		796
90CF056.1	CTA	793
92RW009.6	CCA	816
92NG003.1	A	803
93BR029.4		819
94CY032.3	TT	793
96ZM651.8	A	78
96ZM751.3 94CY017.41		806
94IN476.104		788
341N4/0.104		
93BR020.1	GGACCCATCCCCCAGGTCAGATAAGGGAACCTAGGGGAAGTGATATAGCTGGAACTACT	84
92NG083.2	GTTAAAGTAA	87
90CF056.1	GTTACAGAACAA	85
92RW009.6	GTG-TG-GCAACA	85
92NG003.1	TTAAAAAA	87
93BR029.4	TACGG	86
94CY032.3	GTTACGAAAA	87
96ZM651.8	GTTG-ACAGAAA	85
96ZM751.3	GTTG-ACAAACA	84
94CY017.41	GTTACGAACA	86
94IN476.104	GT-ATACGAAAA	84
		0.0
93BR020.1	AGTACCCTTCAGGAACAAATACAATGGATGACAGGCAACCCACCTGTCCCAGTGGGAGAA	90
92NG083.2	AG	93
90CF056.1		91 91
92RW009.6	AATA-T	93
92NG003.1	AC	92
93BR029.4	AA	93
94CY032.3	AGGA	91
96ZM651.8	CAGCA-TTCA-TC	90
96ZM751.3	G	92
94CY017.41		90
94IN476.104	A-TC	,,,
00000000	ATGTATAAAAGATGGATCATCCTAGGATTAAATAAAATA	96
93BR020.1	C	99
92NG083.2 90CF056.1	CTT	97
92RW009.6	TATGG	9.7
92RW009.6 92NG003.1	T	99
	-TAC-	98
93BR029.4		99
ロカビソロフラ ラ	A 1 0 0	97
94CY032.3	C	
96ZM651.8	C	96
96ZM651.8 96ZM751.3	C	96 98
96ZM651.8 96ZM751.3	C	
96ZM651.8 96ZM751.3	C	98 96
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	C	98 96 102
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	C	98 96 102 105
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		98 96 102 105 103
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	C	98 96 102 105 103
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	C	98 96 102 105 103 103
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	C	98 96 102 105 103 103 104
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-CA-TGG	98 96 102 103 103 104 105
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		98 96 102 105 103 105 104 105
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	C	98 96 102 105 103 104 105 103
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-CA-TGG	98 96 102 105 103 105 104 105

Fig. 13-3

93BR020.1	TTTAAAACCCTAAGAGCTGAGCAAGCTACACAGGAAGTAAAGGGTTGGATGACAGACA	1080
92NG083.2	AA	1115
90CF056.1	TTAAAAAA	1096
92RW009.6	AAATTTTTT	1093
		1116
92NG003.1	-AAAAAAA	1101
93BR029.4	TGTCAAAAA	1115
94CY032.3	CTT	1093
96ZM651.8	-CTIAGA	1086
96ZM751.3	ATAA.	1106
94CY017.41	GGG	
94IN476.104	AAA	1088
93BR020.1	TTGTTGGTCCAAAATGCGAACCCAGATTGTAAGACCATTTTAAAAGCATTGGGACCAGGG	1140
92NG083.2	AA	1175
90CF056.1	AATATAGAA	1156
92RW009.6	AA	1153
92NG003.1	CCGAGA	1176
93BR029.4	CA	1161
94CY032.3	CCAA	1175
	AAA	1153
96ZM651.8	GGA	1146
96ZM751.3	CAA	1166
94CY017.41	- Garage A	1148
94IN476.104	AA	1140
		1200
93BR020.1	GCTACACTAGAGGAAATGATGACAGCATGTCAGGGAGTGGGAGGACCTAGCCATAAGGCA	1200
92NG083.2	AAA	1235
90CF056.1	TATA	1216
92RW009.6	TTA	1213
92NG003.1	AATTAAA	1236
93BR029.4		1221
94CY032.3	AA	1235
96ZM651.8	CA	1213
	GGGGG	1206
96ZM751.3	CTTA	1226
94CY017.41	TTACA	1208
94IN476.104	TTAGA	1200
	ACACCE ATATCATC	1251
93BR020.1	AGAGTTTTGGCTGAGGCAATGAGCCAAGCAACAAATACAGCTATAATGATG	1295
92NG083.2	A	
90CF056.1	ACA-ATA-AGCC	
		1273
92RW009.6	GAAT-CACAACAAC	1264
92RW009.6 92NG003.1	GAA	1264 1293
92NG003.1	GA	1264 1293 1275
92NG003.1 93BR029.4	GA	1264 1293
92NG003.1 93BR029.4 94CY032.3	GA	1264 1293 1275
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	G	1264 1293 1275 1292
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-GA	1264 1293 1275 1292 1264
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-GAT-CACAACAAC	1264 1293 1275 1292 1264 1257 1283
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-GA	1264 1293 1275 1292 1264 1257
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-GA	1264 1293 1275 1292 1264 1257 1283 1256
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-GAT-CACAACAAC	1264 1293 1275 1292 1264 1257 1283 1256
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-GA	1264 1293 1275 1292 1264 1257 1283 1256
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1353
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1353
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1352
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1352 1352
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-G	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1352 1324 1340
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-G	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1352 1352
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1352 1324 1340
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1352 1324 1340
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1317
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1352 1353 1352 1352 1317 1340 1316
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	-G	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1317 1340 1316
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1317 1340 1316
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG009.6 92NG003.1	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1353 1352 1324 1317 1340 1316
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1352 1352 1324 1317 1340 1316 1371 1415 1393 1384 1413
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR022.4 94CY032.3	-G	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 13324 1353 1352 1324 1317 1340 1316 1371 1415 1393 1384 1413
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1315 1352 1324 1317 1340 1316
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR022.4 94CY032.3	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1315 1316 1316 1316 1311 1415 1393 1384 1413 1395 1412 1412
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.1 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG003.1 93BR029.4 94CY017.41 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8	-GA	1264 1293 1275 1292 1264 1257 1283 1256 1311 1355 1333 1324 1315 1352 1324 1317 1340 1316

Fig. 13-4

	POL start	
93BR020.1	GAGGGACACCAAATGAAGGACTGCACTGAGAGACAGGCTAAFTTTTTTAGGGAAAATTTGG	1431
92NG083.2	TA-AGAG	1475
90CF056.1	ATGAA	1453
92RW009.6		1444
92NG003.1	TAA	1473
93BR029.4	AGATT	1455
94CY032.3		1472
96ZM651.8	G	1444
96ZM751.3	AAT	1437
94CY017.41	ATAT	1460
94IN476.104	A	1436
	•	
93BR020.1	CCTTCCAACAAGGGGAGGCCCGGAAACTTCATCCAGAACAGG	1473
92NG083.2	TC	1517
90CF056.1	GAAT-TCG	1495
92RW009.6	GA	1486
92NG003.1	AGTTC-T	1515
93BR029.4	CAAGTC-TGA	1497
94CY032.3	GAATTC-T	1514
96ZM651.8	CAAGTC-T	1486
96ZM751.3	C-GGGC-TACCAGAGCCAACAGCCCCA	1497
94CY017.41	AAAT-TCCTGA	1502
94IN476.104	CAGTC-TA	1478
		1533
93BR020.1	CCAGAGCCGTCAGCCCCGCCAGCAGAGAGCTTCAGGTTCGGGGAGGAGACAACCCCATCT	1533
92NG083.2	AA	1577
90CF056.1	AAAA	1555
92RW009.6	-TGAAATG-AA-GATG-TC	1546
92NG003.1	AAACGAT-GT-C	1575
93BR029.4	AAAAA-TC-C	1557
94CY032.3	AAT-C	1574
96ZM651.8	AAA	1543
96ZM751.3	CTAAA	1554
94CY017.41	AAAA	1562
94IN476.104	AAACG	1535
0200000 1		1590
93BR020.1	CCGAAGCAGGAGCAGAAAGACGAGGGACTGTACCCTCCCTTAGCTTCCCTCAAATCA	1631
92NG083.2	TAA	1609
90CF056.1	-TAAGATAT	1594
92RW009.6	-TA-CAA-TCAA-C	1629
92NG003.1	T-TCAA	1614
93BR029.4	-TA-CGGAAATATA	1628
94CY032.3		1591
96ZM651.8	GAAAAAAA-	1602
96ZM751.3	-TA-T-G-GAC-AGACAAATGC-AT	1619
94CY017.41	-1A-1-G-GAC-AGACAAA1GC-A1	1583
94IN476.104	GAG end	1303
93BR020.1	CTCTTTGGCAACGACCCCTAGTCACAATAAGAGTAGGGGGACAGCTAAAGGAAGCTCTAT	1650
92NG083.2	G	1691
90CF056.1	TGTGA-AATG	1669
92RW009.6	A-A	1654
92NG003.1	TAT	1689
93BR029.4	G	1674
94CY032.3		1688
96ZM651.8		1651
96ZM751.3		1662
94CY017.41	AAAAA	1679
94 IN 476 104		1643
	j	_
93BR020.1	TAGATACAGGAGCAGATGATACAGTATTAGAAGACGTAAATTTGCCAGGAAAATGGAAAC	1710
92NG083.2	CAA	1751
90CF056.1		1729
92RW009.6	AA	1714
92NG003.1	CAAA	1749
93BR029.4	AG	1734
94CY032.3	AAG-	1748
96ZM651.8	CGC	1711
96ZM751.3	-GAA	1722
94CY017.41	AAA	1739
94IN476.104	C	1703

Fig. 13-5

0200020 1	CAAAAATGATAGGGGGAATTGGAGGTTTTATCAAAGTAAAACAGTATGATAGCATACTCA	1770
93BR020.1		1811
92NG083.2		1789
90CF056.1	GT-	1774
92RW009.6	CAN	1809
92NG003.1		
93BR029.4		1794
94CY032.3		1808
96ZM651.8		1771
96ZM751.3	GT-	1782
94CY017.41	GACAGGCT-	1799
94IN476.104		1763
941N4/0.104		
0200000 1	TAGAAATTTGTGGACACAGAGCTATAGGTACAGTGTTAGTAGGACCTACGCCTGTCAACA	1830
93BR020.1	TAGAAATITGIGGACACAGAGCTATAGGTACAGTGTAGTAGGACCTACGCCTGTCAACA	1871
92NG083.2	A-A-AGA-T	
90CF056.1	A-A-AGT-	1849
92RW009.6	A-A-AGA-A-ATAT	1834
92NG003.1		1869
93BR029.4	AAAAAA	1854
94CY032.3	A-A-AGCCAAAA	1868
96ZM651.8	-GA-A-AGA-A-AGAA	1831
96ZM751.3	A-A-AGAAAA	1842
	A-AGCAC	1859
94CY017.41	A-A-AGAAAA	1823
94IN476.104	A-A-AGA-A-AG	1025
		1000
93BR020.1	TAATTGGAAGAAATATGTTGACCCAGATTGGTTGTACTTTACATTTTCCAATTAGTCCTA	1890
92NG083.2	A-CA-	1931
90CF056.1	CAATACCA	1909
92RW009.6	A-CA-C	1894
92NG003.1	A	1929
93BR029.4	CCCCC	1914
	CTCA	1928
94CY032.3	ACACA	1891
96ZM651.8	The state of the s	1902
96ZM751.3	G	
94CY017.41	CAA	1919
94IN476.104		1883
93BR020.1	TTGAGACTGTACCAGTAAAATTGAAGCCAGGAATGGATGG	1950
93BR020.1 92NG083.2	TTGAGACTGTACCAGTAAAATTGAAGCCAGGAATGGATGG	1950 1991
92NG083.2	A	
92NG083.2 90CF056.1	A	1991
92NG083.2 90CF056.1 92RW009.6	A	1991 1969
92NG083.2 90CF056.1 92RW009.6 92NG003.1	A	1991 1969 1954 1989
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A	1991 1969 1954 1989 1974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A	1991 1969 1954 1989 1974 1988
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A	1991 1969 1954 1989 1974 1988 1951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A	1991 1969 1954 1989 1974 1988 1951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		1991 1969 1954 1989 1974 1988 1951 1962 1979
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A	1991 1969 1954 1989 1974 1988 1951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A A	1991 1969 1954 1989 1974 1988 1951 1962 1979
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		1991 1969 1954 1989 1974 1988 1951 1962 1979
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG093.1 92NG003.1 93BR029.4 94CY032.3		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2048 2048 2011 2022 2039
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		1991 1969 1954 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2049 2034 2011 2022
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2048 2048 2011 2022 2039
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2048 2048 2011 2022 2039
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR020.1 93BR020.1 94CY017.41 94IN476.104 93BR020.1		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2070 2111 2089 2074
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2011 2022 2039 2003 2070 2111 2089 2074 2109
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003 2070 2111 2089 2074 2109 2074
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003 2070 2111 2089 2074 2109 21094 2108
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003 2070 2111 2089 2074 2109 2094 2108 2094 2108 2071
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003 2070 2111 2089 2074 2109 2094 2108 2094 2108 2094 2109 2094 2108 2109 2094 2108 2109 2094 2108 2109 2109 2109 2109 2109 2109 2109 2109
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		1991 1969 1954 1989 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2048 2011 2022 2039 2003 2070 2111 2089 2074 2109 2094 2108 2094 2108 2094
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		1991 1969 1954 1988 1974 1988 1951 1962 1979 1943 2010 2051 2029 2014 2049 2034 2011 2022 2039 2003 2070 2111 2089 2074 2109 2094 2108 2094 2108 2094 2108 2094 2108 2094 2108 2108 2108 2108 2108 2108 2108 2108

Fig .13-6

93BR020.1	AAAAAGACAGTACTAAATGGAGGAAATTAGTAGATTTCAGAGAACTTAATAAAAGAACTC	2130
92NG083.2	AAG	2171
	-GGT	2149
90CF056.1	-GGI	2134
92RW009.6	-GGGA	
92NG003.1		2169
93BR029.4	TG	2154
94CY032.3	C	2168
		2131
96ZM651.8	-GG	
96ZM751.3	-GG	2142
94CY017.41		2159
94IN476.104	GGG	2123
J41N470.104		
		2190
93BR020.1	AAGATTTTTGGGAGGTTCAATTAGGAATACCGCATCCAGCAGGGTTAAAAAAAGAAAAAGT	
92NG083.2	CC	2231
90CF056.1	CCAAACA	2209
92RW009.6	CACACA	2194
		2229
92NG003.1	CC	
93BR029.4	CCAGACA-	2214
94CY032.3	-GCCG	2228
96ZM651.8	CA	2191
	-GCAACG	2202
96ZM751.3	-GCAC	2219
94CY017.41	AAAG	
94IN476.104	CAACTA	2183
93BR020.1	CAGTAACAGTACTGGATGTGGGGGATGCATATTTTTCAGTTCCCTTAGATAAGGATTTCA	2250
	CAGIAACAGIACIGGGGGGGGGGGGGGGGGGGGGGGGGG	2291
92NG083.2	A	
90CF056.1	TAA	2269
92RW009.6	G	2254
92NG003.1	AG-AA-CT-	2289
	AC	2274
93BR029.4	a Co	
94CY032.3		2288
96ZM651.8	GTG-AAGC	2251
96ZM751.3	GTG-A-GC	2262
94CY017.41	C	2279
		2243
94IN476.104	G	2243
93BR020.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC	2310
93BR020.1 92NG083.2	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC	2310 2351
92NG083.2	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATGAAT-	2351
92NG083.2 90CF056.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTTTATGAAT-	2351 2329
92NG083.2 90CF056.1 92RW009.6	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -AT	2351 2329 2314
92NG083.2 90CF056.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTAT	2351 2329 2314 2349
92NG083.2 90CF056.1 92RW009.6	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATT-	2351 2329 2314
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATT-	2351 2329 2314 2349
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTA	2351 2329 2314 2349 2334 2348
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTT-	2351 2329 2314 2349 2334 2348 2311
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTT-	2351 2329 2314 2349 2334 2348 2311 2322
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTAT	2351 2329 2314 2349 2334 2348 2311 2322 2339
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTAT	2351 2329 2314 2349 2334 2348 2311 2322
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTT-	2351 2329 2314 2349 2334 2348 2311 2322 2339
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTAAATATT	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -AT	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTATGAATATATTAAGAATATTTAAGAATATTTT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTATGAATATATTAAGAATATTTAAGAATATTTT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTAAATATATTTTTATAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTTTATAATATATTTTTATAATATTTTT	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTA-TGAA-TATTTTTA-TAATATT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTATGAATATATTTTATAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTA-TGAA-TATTTTTA-TAATATT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTTATGAATATTTTTATAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTATGAATATATTTTATAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTTATGAATATTTTTATAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTAAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTTTAAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTTTAAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAA-TATTTTTAAA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2411 2389 2374 2408 2371 2382 2399 2363 2471 2389 23434
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTT-TTA-TGAA-TATTTTA-TGAA-TATA-TTTTA-TGAA-TATA-TTTA-TA-AGCA-TATTTTA-TA-AGAA-TA-TTTTA-A-A-AGAA-TA-A-TTTA-A-A-AGAA-TA-A-TTTA-A-AGAA-TA-A-TTTTA-A-AGAA-TA-A-TTTA-A-AGAA-TAGTACAATGTGCTTCCACAAGGATGGAAAGGATCACCAGCAATATTCCAATATAGCATGA -AG	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2408 2371 2382 2399 2363 2471 2434 2469
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTATGAA-TATTTTATGAA-TATATTTTATGAA-TATATTATAATATATATAT	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449 2449 2449 2449
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTTATA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2408 2371 2382 2399 2363 2471 2434 2469
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92NG083.2 90CF056.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATTTTTATA	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2449 2449 2449 2449
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -A T TT - T TA - T	2351 2329 2314 2349 2348 2311 2322 2339 2303 2411 2389 2374 2408 2371 2389 2363 2471 2389 2408 2408 2408 2408 2408 2408 2408 2408
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2371 2409 2374 2408 2371 2382 2399 2363 2471 2434 2469 2454 2469 2454 2468 2442
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTA-TGAA-TATTTTTA-TGAA-TATTTTTATGAA-TATTTTATAATATTTTATAA	2351 2329 2314 2334 2348 2311 2322 2339 2303 2370 2411 2389 2374 2409 2394 2408 2371 2382 2399 2363 2471 2442 2454 2469 2454 2468 2442 2459
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1	GGAAGTACACTGCATCCACCATACCTAGTACCAACAATGAGACACCAGGAGTTAGGTACC -ATTTTTATGAATATT-	2351 2329 2314 2349 2334 2348 2311 2322 2339 2303 2371 2389 2374 2408 2371 2382 2399 2363 2471 2434 2469 2454 2468 2454 2468 2454 2468 2454 2468 2454 2468

Fig. 13-7

93BR020.1 92NG083.2 90CF056.1 92RW009.6	ATGATTTGTATGTAGGGTCTGACTTAGAAATAGGACAGCATAGAACAAAAATAGAAGAGT AAGGG	2490 2531 2509 2494
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A	2529 2514 2528 2491
96ZM751.3 94CY017.41 94IN476.104	C	2502 2519 2483
93BR020.1 92NG083.2	TAAGAGAACATCTACTGAAATGGGGATTAACTACACCAGACAAAAAACATCAAAAAGAAC	2550 2591
90CF056.1 92RW009.6 92NG003.1	CTT-GTTCG	2569 2554 2589
93BR029.4 94CY032.3 96ZM651.8	-GC-GT-GTGGTC	2574 2588 2551
96ZM751.3 94CY017.41 94IN476.104		2562 2579 2543
93BR020.1 92NG083.2	CCCCATTCCTTTGGATGGGGTATGAACTCCATCCTGATAAATGGACAGTGCAGCCTATAC -TGAAGA	2610 2651
90CF056.1 92RW009.6		2629 2614
92NG003.1 93BR029.4 94CY032.3	-TC	2649 2634 2648
96ZM651.8 96ZM751.3	CAA	2611 2622 2639
94CY017.41 94IN476.104	-TC	2603
93BR020.1 92NG083.2	AATTGCCAGACAAGGACAGCTGGACTGTCAATGATATACAGAAGTTAGTAGGAAAACTAA -GCAAGATA	2670 2711 2689
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-GC A AGAT A G	2711 2689 2674 2709 2694 2708
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-GC A AGAT	2711 2689 2674 2709 2694 2708 2671 2682 2699
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-GC A AGAT A G G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2768
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM751.3 94CY017.41	-GC A AGAT A G G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-GC A AGAT A G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-GC A AGAT A G G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2	-GC A AGAT	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2734 2769 2754 2768 2731 2741 2759 2723 2790 2831 2809 2794 2829 2814
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-GC A AGAT A G G	2711 2689 2674 2709 2694 2708 2671 2682 2699 2663 2730 2771 2749 2754 2768 2754 2759 2754 2759 2723

Fig. 13-8

		2850
93BR020.1	AGAATAGGGAGATTCTAAAAGAACCAGTACATGGGGCATATTATGACCCGTCAAAAGACT	
92NG083.2	CAAAAA	2891
90CF056.1	-ACTAA-TTA	2869
92RW009.6	-ACATA-TA-TA-TA-T	2854
	CAA-TCCAA-	2889
92NG003.1	-ACCC	2874
93BR029.4	-ACA-1GA	2888
94CY032.3	CAA	
96ZM651.8	C-AATAA	2851
96ZM751.3	GCAAAAAA	2861
94CY017.41	CATACCTTCA	2879
	CAA	2843
94IN476.104		
		2910
93BR020.1	TAATAGCAGAAATACAGAAACAAGGGCAAGGGCAATGGACATATCAAATTTATCAAGAGC	
92NG083.2		2951
90CF056.1		2929
92RW009.6	T	2914
92NG003.1	TTTGC-AC	2949
	G	2934
93BR029.4	AA	2948
94CY032.3	G	
96ZM651.8	-GTCGA-	2911
96ZM751.3		2921
94CY017.41	AC	2939
94IN476.104	T	2903
741M4/0.104	2	
	CATTTAAAAATCTAAAAACAGGAAAGTATGCAAAAATGAGGTCTGCCCACACTAATGATG	2970
93BR020.1	CATTTAAAAATCTAAAAACAGGAAAAGTATGCAAAAATGAGGTCTGCCCACACTAATGATG	3011
92NG083.2	ACA	
90CF056.1	AAA	2989
92RW009.6	C	2974
92NG003.1	ACG	3009
	A	2994
93BR029.4		3008
94CY032.3	CAG	2971
96ZM651.8	CA-AA-A	
96ZM751.3	CA	2981
94CY017.41	-CGGA	2999
94IN476.104	C	2963
J41N470.104		
	\mathcal{L}_{A}	3030
93BR020.1	TAAAACAGTTAACAGAAGCAGTGCAAAAGATATCTCTAGAAAGCATAGTAATATGGGGCA	3030
93BR020.1 92NG083.2	A	3071
	A	3071 3049
92NG083.2 90CF056.1	ACAAACGG	3071
92NG083.2 90CF056.1 92RW009.6	ACAAACGG	3071 3049
92NG083.2 90CF056.1 92RW009.6 92NG003.1	AAAAAAA	3071 3049 3034
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AAAG-CACGGCA- A	3071 3049 3034 3069 3054
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACAG-CACGGCAAAAAAAA	3071 3049 3034 3069 3054 3068
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A	3071 3049 3034 3069 3054 3068 3031
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A	3071 3049 3034 3069 3054 3068 3031 3041
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		3071 3049 3034 3069 3054 3068 3031
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		3071 3049 3034 3069 3054 3068 3031 3041
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A	3071 3049 3034 3069 3054 3068 3031 3041 3059
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	ATAG-CACGGCAAA	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	A T A - G - CAC GG C A AC AC	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 3109
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		3071 3049 3034 3069 3054 3068 3031 3041 3022 3090 3131 3109 3094
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 3109
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3022 3090 3131 3109 3094
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	A T A - G - CAC GG C A A A A A A A A A A A A A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A T A - G - CAC GG C A A A A A A A A A A A A A A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 3109 3094 3129 3114 3128
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		3071 3049 3034 3068 3054 3068 3031 3041 3022 3090 3131 3109 3094 3129 3114 3128 3091
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 31094 3129 3114 3129 3114 3129 3114
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3	A T A - G - CAC GG C A AC AC	3071 3049 3034 3069 3054 3068 3031 3041 3059 3092 3131 3109 3129 3114 3128 3091 3129 3114
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3	A T A - G - CAC GG C A AC AC	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 31094 3129 3114 3129 3114 3129 3114
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3	A A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3092 3131 3109 3129 3114 3128 3091 3129 3114
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A T A - G - CAC GG C A AC AC	3071 3049 3034 3054 3058 3051 3041 3059 3022 3090 3131 3109 3129 3128 3091 3119 3082
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		3071 3049 3034 3069 3054 3068 3031 3041 3022 3090 3131 3109 3129 3114 3129 3091 3119 3082
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A T A - G - CAC GG C A A A A A A A A A A A A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3022 3090 3131 31094 3129 3114 3129 3091 3119 3082
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	A T A - G - CAC GG C A A A A A A A A A A A A A A A A A A A A A	3071 3049 3034 3069 3054 3068 3031 3041 3059 3094 3129 3114 3129 3114 3129 3119 3082
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	A T A - G - CAC GG C A AC AC	3071 3049 3034 3054 3069 3054 3069 3022 3090 3131 3109 3094 3128 3091 3119 3082 3150 3151 3151
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A T A - G - CAC GG C A A A	3071 3049 3034 3054 3058 3059 3022 3090 3131 3109 3194 3128 3091 3119 3082 3150 3151 3151
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	A T A - G - CAC GG C A A A	3071 3049 3034 3068 3054 3068 3031 3041 3022 3090 3131 3109 3114 3129 3114 3119 3082 3150 3169 3169 3169 3169 3169 3169
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1		3071 3049 3034 3069 3054 3068 3031 3041 3092 3094 3129 3114 3129 3091 3119 3082 3150 3151 3169 3154 3189 3174
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY032.3		3071 3049 3034 3069 3054 3068 3031 3041 3059 3094 3129 3114 3129 3114 3129 3119 3082 3150 3151 3169 3154 3154 3154 3154
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY032.3 96CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8		3071 3049 3034 3068 3054 3068 3041 3059 3022 3090 3131 3109 3119 3128 3091 3119 3082 3150 3154 3188 3151
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY032.3		3071 3049 3034 3054 3058 3051 3049 3022 3090 3131 3109 3114 3128 3091 3119 3082 3151 3154 3188 3151 3161
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		3071 3049 3034 3068 3068 3031 3049 3022 3090 31310 3199 3114 3199 3114 3199 3114 3199 3114 3199 3114 3119 3119
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.2 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		3071 3049 3034 3054 3058 3051 3049 3022 3090 3131 3109 3114 3128 3091 3119 3082 3151 3154 3188 3151 3161

Fig. 13-9

93BR020.1	TATGGTATCAGTTAGAAACAGAGCCCATAGTAGGAGCAGAAACCTTCTATGTAGATGGGG	3210
92NG083.2	AAT-AT-A	3251
90CF056.1	T-AA	3229
92RW009.6	GTA-	3214
92NG003.1		3249
93BR029.4	TT	3234 3248
94CY032.3	CT	3248
96ZM651.8 96ZM751.3	A	3221
94CY017.41	-GTT	3239
94IN476.104	AA	3202
		3270
93BR020.1	CATCTAATAGAGAGACCAAAAAAGGAAAAGCAGGATATGTTACTGACAGAGGAAGACAAA GGATTGCAA	3311
92NG083.2 90CF056.1	GGATTT	3289
92RW009.6	GC-GATT	3274
92NG003.1	GAAATTGA	3309
93BR029.4	GGATTT	3294
94CY032.3	GTC	3308
96ZM651.8	G-CGATTT	3271
96ZM751.3	Ġ-CGATTGG	3281 3299
94CY017.41 94IN476.104	GGATGT	3262
941N4/6.104	<u> </u>	3202
93BR020.1	AAGCGGTCTCCCTAACTGAGACTACAAATCAGAAGGCTGAGTTACAAGCAATTCAGTTAG	3330
92NG083.2	ATTA-TAAC	3371
90CF056.1	TT	3349 3334
92RW009.6	ATTTTTAAAAC ATTAAACAGAA	3334
92NG003.1 93BR029.4	TTCTC	3354
94CY032.3	TTTAAT-C	3368
96ZM651.8	-ATTTA-TT-CC	3331
96ZM751.3	ATTTA-TAAAAA	3341
94CY017.41	ATTGGAAAAA	3359
94IN476.104	ATTTTT	3322
93BR020.1	CTTTACAGGATTCAGGATCAGAAGTAAACATAGTAACAGACTCACAGTATGCATTAGGAA	3390
92NG083.2	GCAC	3431
		343I
90CF056.1	GAG-TGTT	3409
90CF056.1 92RW009.6	GA	3409 3394
92RW009.6 92NG003.1	GA	3409 3394 3429
92RW009.6 92NG003.1 93BR029.4	GAGGTC	3409 3394 3429 3414
92RW009.6 92NG003.1 93BR029.4 94CY032.3	GAGGTC	3409 3394 3429 3414 3428
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GAGGTC	3409 3394 3429 3414
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GAGGTC	3409 3394 3429 3414 3428 3391
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GAGGTC	3409 3394 3429 3414 3428 3391 3401
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GAGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GAGGTC	3409 3394 3429 3414 3428 3391 3401 3419
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GAGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GAGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GAGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3469 3489
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GAG-TGGTCG	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3451 3469 3454 3474
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3491 3469 3454 3488
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GAG-TGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3469 3474 3488 3451
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GAG-TGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3489 3474 3488 3451 3461
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GAG-TGGTCG	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3469 3474 3488 3451
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3488 3474 3488 3474 3442
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3488 3451 3461 3479 3442
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	GAG-TGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3459 3454 3461 3461 3479 3442 3510
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1		3409 3394 3429 3414 3428 3391 3401 3419 3459 3454 3461 3479 3442 3551 3529
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		3409 3394 3429 3414 3428 3391 3401 3419 3459 3454 3461 3461 3479 3442 3510
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1	GAG-TGGTC	3409 3394 3429 3414 3428 3391 3401 3419 3382 3450 3454 3461 3474 3488 3451 3479 3442 3551 3529 3514
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3		3409 3394 3428 34124 3428 3391 34192 3459 3459 3469 3474 3489 3474 3481 3479 3472 3511 3529 3514 3534 3534 3534
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		3409 3394 3428 3491 3419 3382 3451 3469 3474 3488 3474 3488 3451 3479 35529 35514 35534 35348 3511
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	GAGTGTC	3409 3394 3414 3418 3391 3419 3419 3459 3459 3459 3454 3451 3451 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551 3551
92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		3409 3394 3428 3491 3419 3382 3451 3469 3474 3488 3474 3488 3451 3479 35529 35514 35534 35348 3511

Fig. 13-10

93BR020.1	ATGAACAAGTAGATAAATTAGTCAGTGCTGGAATCAGGAAAG	TACTGTTTCTAGATGGGA
92NG083.2	AG	T-AT-GC-
90CF056.1	GA	-GA
92RW009.6	AGG	-GA-
92NG003.1	AGA	
93BR029.4	T	ATA-
94CY032.3	AG-	
96ZM651.8	GACAAG	
96ZM751.3	GAAG	-GA-
94CY017.41	T	
94IN476.104	T	
93BR020.1	TAGATAAGGCACAAGAGGAACATGAAAAATATCACAACAATT	
92NG083.2	GG	
90CF056.1	ATAGGT	
92RW009.6	G	
92NG003.1	GG	
93BR029.4	T	
94CY032.3	TC-	
96ZM651.8	CTAG	
96ZM751.3		
94CY017.41		CA
94IN476.104	G	A
93BR020.1	ATTTTAATATACCAGCTGTAGTAGCAAAAGAAATAGTAGCTA	GCTGTGATAAATGTCAGC
92NG083.2	GC	A-
90CF056.1	CCA	
92RW009.6	G	
92NG003.1	GC-A	
93BR029.4	-CC	
94CY032.3	G	
96ZM651.8	-AC-A	-T
96ZM751.3	-GC-GC-CA	
	-CCC	
94CY017.41 94IN476.104	-GC-GC-CA	
J41N4/0.104	-GC-GC-CA	G
93BR020.1	TAAAAGGGGAAGCCATGCATGGACAAGTAGATTGTAGCCCAG	GGATATGGCAATTAGATT
92NG083.2	CT	-A
90CF056.1	C	-A
	CT	
92RW009.6	CT	-7
92NG003.1	AT	A
93BR029.4	C C T	-A
94CY032.3	GCT	
		C-
	ACA	C-
96ZM751.3	CT	C- -A
96ZM751.3 94CY017.41	CT	C- -AC-
96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		C- -AC-
96ZM751.3 94CY017.41 94IN476.104		-AC-
96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG	-AC
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG	TAGCTAGTGGGTÀCCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG	
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG	
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -TGATT	
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -TGC-GTTC-G	-A
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -TGC-GT	TAGCTAGTGGGTACCTAGCCTACCTACCTACCTACCTACCTACCTACCTACCTA
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAGCCTACCTACCTACCTACCTACCTACCTACCTACCTA
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.6 92NG003.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAGCCTACCTACCTACCTACCTACCTACCTACCACCTACCTACCTACCTACCTACCTACCTACCTACCTA
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAGCCTACCTACCTACCTACCTACCTACCTACCACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTA
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTÀCCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTÀCCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.2	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -TGC-GTTC-GAGTC	TAGCTAGTGGGTACCTAG
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAGCCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTA
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAGCC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACC-TACCCACCCA
96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.3 96ZM651.3	GCACACATTTAGAAGGAAAAATTATCCTGGTAGCAGTCCATG -T	TAGCTAGTGGGTACCTAGCCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACCTACTATACTATATATATATATATATATATATATATATATATATA

Fig. 13-11

93BR020.1	CAGGAAGATGGCCAGTAAAAACAATACATACAGACAATGGCACCAATTTCACCAGTGCCA
92NG083.2	GTGTG
90CF056.1	A-CGT
92RW009.6	
92NG003.1	GTC
93BR029.4	
94CY032.3	GTGTG
96ZM651.8	T-GT-T-T-T-T-T-T-T-T-T-T-T-T-
96ZM751.3	GTTG
94CY017.41	GCTA-
94IN476.104	T-GTTG
0200000 1	
93BR020.1	CGGTTAAGGCAGCTTGTTGGTGGGCAGGTATCCAGCAGGAATTTGGAATTCCTTACAACC
92NG083.2	-AA
90CF056.1	
92RW009.6	-AACT-
92NG003.1	-AA-GAC
93BR029.4	-ACCCT-
94CY032.3	
96ZM651.8	-A
96ZM751.3	-ACCT-
94CY017.41	-A
94IN476.104	-A
93BR020.1	CCCAAAGTCAAGGAGTAGTAGAATCTATGAATAAAGAGCTAAAGAAAATCATAGGACAGA
92NG083.2	G
90CF056.1	
92RW009.6	GGGG
92NG003.1	C
93BR029.4	ATT
94CY032.3	
96ZM651.8	GG
	-AGGGGG
96ZM751.3	
94CY017.41	
94IN476.104	
0200000 1	T11 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (
93BR020.1	TAAGAGATCAAGCTGAACATCTTAAGACAGCAGTCCAAATGGCAGTATTCATTC
92NG083.2	-TGAGA
90CF056.1	ACAA
92RW009.6	AAA
	-CG
	GGC
93BR029.4	GGC
93BR029.4 94CY032.3	GGC
93BR029.4 94CY032.3 96ZM651.8	GGC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GGCAC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GG
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGCAC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GGC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	GGCACC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	GGC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	GGCACCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92DF0563.2 90CF056.1 92RW009.6 92RW009.6	GGCACCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92DF056.1 92RW009.6 92RW009.6 92RW009.4 94CY032.3	GGCACCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92BR029.4 94CY032.3 96ZM651.8	GGCACCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 94CY032.3 96ZM651.8 96ZM751.3	GGCAGCCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.4 94CY032.3 96ZM651.8 96ZM651.3	
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.4 94CY032.3 96ZM651.8 96ZM651.3	GGCAGCCCC
93BR029.4 94CY032.3 96CZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 92NG003.1 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GGCACCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.6 92RW009.1 94CY032.3 96ZM651.8 96ZM651.8 94CY017.41 94IN476.104	GGCAGCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	GGCAG
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GGCAGCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	GGCACCCC
93BR029.4 94CY032.3 96CZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW009.4 94CY032.3 96ZM651.8 96ZM651.8 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	GG
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92RW009.6 92RW651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CF056.1	GGCACCCC
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3	GGCAGCCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	GG
93BR029.4 94CY032.3 96CZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8	GG
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 92RG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94IN476.104 93BR020.1 92RW009.6 92NG083.2 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6 92RW009.6	GGCAGAGCCC
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 92RW009.6 92RW009.6 92RW009.6 92RW651.8 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 92RW009.6 93BR020.1 92RW009.6 93BR020.1 92RW009.6 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	GG

Fig. 13-12

93BR020.1	TTTATTACAGGGACAGC	AGAGACCCAGTT'	TGGAAAGGACCAGCA	AAGCTACTCTGGAAAG	4290
92NG083.2					4331
90CF056.1		A		AC	4309
92RW009.6					4294
92NG003.1	-C				4329
93BR029.4	A				4314
94CY032.3 96ZM651.8					4328 4291
96ZM751.3	A				4301
94CY017.41					4319
94IN476.104	A				4282
93BR020.1	GTGAAGGGCAGTAGTC				4350
92NG083.2	A				4391
90CF056.1	A				4369
92RW009.6 92NG003.1	AA				4354
93BR029.4	A				4389 4374
94CY032.3	A				4388
96ZM651.8	A				4351
96ZM751.3	A				4361
94CY017.41	A				4379
94IN476.104	A	T			4342
		VIF start			
93BR020.1	CAAAGATCATTAGGGAT	TATGGAAAACAG.			4410
92NG083.2	CA				4451
90CF056.1	A				4429
92RW009.6 92NG003.1					4414 4449
93BR029.4	TA				4434
94CY032.3	C				4448
96ZM651.8	AC				4411
96ZM751.3	AC				4421
94CY017.41					4439
94IN476.104	AT				4402
	POL end ←	•			
93BR020.1	AGGATGAGGATTAACAC				4470
92NG083.2	GA			-TG-C	4511
92NG083.2 90CF056.1	GA			-TG-C	4511 4489
92NG083.2 90CF056.1 92RW009.6		C		-TG-CG -TGCGG-	4511 4489 4474
92NG083.2 90CF056.1 92RW009.6 92NG003.1	AD	C		-TG-CG -TGCG -TAAT	4511 4489 4474 4509
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	AGA	C TC-		-TG-C	4511 4489 4474 4509 4494
92NG083.2 90CF056.1 92RW009.6 92NG003.1	AGA	CC		-TG-CGG- -TGCGG- -TAAT	4511 4489 4474 4509
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		C		-TG-CGG -TGCGG -TAAT -TG	4511 4489 4474 4509 4494
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AGA	CC		-TG-C	4511 4489 4474 4509 4494 4508
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		C		-TG-CGGG	4511 4489 4474 4509 4494 4508 4471 4481
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104				-TG-C	4511 4489 4474 4509 4494 4508 4471 4499 4462
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1				-TG-C	4511 4489 4474 4509 4490 4471 4481 4499 4462
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2				-TG-C	4511 4489 4474 4508 4471 4481 4499 4462 4530 4571
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1				-TG-C	4511 4489 4474 4508 4491 4481 4481 4462 4530 4530 4549
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6				-TG-C	4511 4489 4474 4509 44508 4471 4481 4462 4571 4571 4534
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	GCCAAAGGATGGTTTTA -TG			-TG-C	4511 4489 44709 44509 44508 4471 4481 4463 4534 4534 4569
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	GCCAAAGGATGGTTTTA -TC			-TG-C	4511 4489 4470 4508 4471 4481 4499 446 4571 4549 4534 4554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	GCCAAAGGATGGTTTTA -TG			-TG-C	4511 4489 4474 4509 4490 4471 4481 4499 4462
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	GCCAAAGGATGGTTTTA -T-GAAC-AAC-AAA-			-TG-C	4511 4489 44709 44908 4471 4481 4482 4531 4534 4534 4554 4554 4554 4554
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCCAAAGGATGGTTTTA -TC			-TG-C	4511 4489 44709 44908 4471 4481 4499 4531 4554 4554 45631 4554 45631 45631
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	GCCAAAGGATGGTTTTA -T-GAAC-AAC-AAA-			-TG-C	4511 4489 44709 44908 4471 4481 4499 4531 4554 4554 45631 4554 45631 45631
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GCCAAAGGATGGTTTTA -TG-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-AT-G-CT-G-CT-GTT-G-C			-TG-C	4511 4489 44709 44908 44701 4481 4482 4571 4584 4564 4564 4564 4564 4564 4564 4564
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	GCAAAGGATGGTTTTA			-TG-C	4511 4489 44709 44908 44781 4489 4467 4571 4534 4553 4554 4554 4554 4553 4554 4553 4554 4553 4554 4553
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	GCCAAAGGATGGTTTTA -T-GAA-CT-GAA-CT-GAA-CT-GAA-CT-GAA-CT-GAA-CT-GAA-CT-GAA-CA-C			-TG-C	4511 4488 4477 4508 4471 4481 4498 4571 4584 4564 4564 4564 4564 4564 4564 4564
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1	GCCAAAGGATGGTTTTA -TGAACT-GAACT-GAACT-GTACT-GT			-TG-C	4513 4473 44508 44508 44508 44508 4453 4553 4553 4553 4553 4553 4553 455
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94R0083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	GCCAAAGGATGGTTTTA -TCAAAAA			-TG-C	4513 4478 4479 4508 4478 4488 4488 4488 4488 4488 4488 44
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG09.6	GCCAAAGGATGGTTTTA			-TG-C	4513 4473 4470 4470 4470 4470 4470 4470 447
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94R0083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6	GCCAAAGGATGGTTTTA -TGAA-CT-GAA-CT-GAA-CT-T-T-TA-CT-GTA-CT-GT			-TG-C	4513 4473 44503 44503 4457 44603 4573 4563 4563 4563 4563 4563 4563 4563 4663 46
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92NG083.2	GCCAAAGGATGGTTTTA			-TG-C	4513 4473 44508 44508 44573 44463 4554 4554 4554 4554 4554 4554 45
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.2	GCCAAAGGATGGTTTTA			-TG-C	4513 4479 4479 4479 4479 4478 4478 4478 4478
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	GCCAAAGGATGGTTTTA -TGAGAAA			-TG-C	4511 4489 44709 44908 44701 4481 4482 4571 4584 4564 4564 4564 4564 4564 4564 4564

Fig. 13-13

0000000 1	GGAGAAAGAGAATGGCATCTGGGTCAGGGAGTCTCCATAGAATGGAGGCAGGGGAGGTAT	4650
93BR020.1	GGAGAAAGAGAGIGGCAICIGGGICAGGGAGICICCAIAGAAIGGAGGCAGGGAAGIAI	
92NG083.2	ACATCTGTAAAA	4691
90CF056.1	A-T-AAA	4669
		4654
92RW009.6	G	
92NG003.1		4689
93BR029.4	TT	4674
		4688
94CY032.3	GCACCTT	
96ZM651.8	TTTTATT-A-AA-	4651
96ZM751.3	GATT-A-AAC	4661
	7 A A C	4679
94CY017.41	ACT	
94IN476.104		4642
_		
		4710
93BR020.1	AGAACACAAATAGACCCTGGCCTGGCAGACCAACTGATCCATATATTATTTTTGATTGT	
92NG083.2	T	4751
90CF056.1	CGG	4729
		4714
92RW009.6	-AGGCGC	
92NG003.1	C	4749
93BR029.4	G	4734
94CY032.3	CG-GTAATGCC	4748
96ZM651.8	CGC-C	4711
	CGCA	4721
96ZM751.3		4739
94CY017.41	CATC-GC	
94IN476.104	CGC	4702
311111.0.101		
		4770
93BR020.1	TTTTCAGAATCTGCCATAAGGAAAGCCATATTAGGACATAAAATTAGCCCTAGGTGTAAC	4770
92NG083.2	G-G-T-GG-A	4811
	G-GT-GA	4789
90CF056.1	G G	
92RW009.6	GT-G	4774
92NG003.1	GGG-AGT-GAG-AGT-GA	4809
		4794
93BR029.4		
94CY032.3		4808
96ZM651.8	GCAG	4771
	GC	4781
96ZM751.3		
94CY017.41	G-A-T-GTG-A	4799
94IN476.104	GC-TTTG-T	4762
		4020
93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4830
	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4830 4871
92NG083.2	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871
92NG083.2 90CF056.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCACATT	4871 4849
92NG083.2	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834
92NG083.2 90CF056.1 92RW009.6	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849
92NG083.2 90CF056.1 92RW009.6 92NG003.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869 4854
92NG083.2 90CF056.1 92RW009.6 92NG003.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC	4871 4849 4834 4869 4854 4868
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCTCATCG	4871 4849 4834 4869 4854
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCTCATCG	4871 4849 4834 4869 4854 4868 4831
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869 4854 4868 4831 4841
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841 4859
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4854 4841 4841 4859 4822 R start
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841 4859 4852 R start 4890
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869 4854 4868 4831 4841 4859 4852 R start 4890 4931
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869 4854 4868 4831 4841 4859 4852 R start 4890
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4994
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4994 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCTCACAGG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4994
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCTCACAGG	4871 4849 4834 4869 4854 4868 4831 4841 4852 R start 4890 4931 4909 4994
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCTCACAGG	4871 4849 4834 4869 4854 4868 4831 4859 4822 R start 4890 4894 4929 4894 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4929 4914 4928 4891
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4859 4822 R start 4890 4894 4929 4894 4929
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AG	4871 4849 4854 4868 4831 4841 4859 4822 R start 4890 4931 4994 4929 4914 4928 4891 4901
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4928 4891 4929 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AGCACAGG	4871 4849 4854 4868 4831 4841 4859 4822 R start 4890 4931 4994 4929 4914 4928 4891 4901
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4928 4891 4929 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4928 4891 4929 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4929 4914 4928 4891 4919 4882
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTTCTCG-AG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4994 4929 4914 4928 4891 4919 4882 4950
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA -C-C	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4929 4914 4928 4891 4919 4882
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA -C-C	4871 4849 4869 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4928 4891 4919 4882 4950 4969
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA -C-CTGGGGGGG	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4990 4991 4928 4928 4914 4918 4919 4919 4919 4919 4919 491
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4868 4868 4831 4859 4822 R start 4890 4914 4991 4914 4919 4891 4919 4891 4919 4919
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4854 4868 4831 4841 4859 4822 R start 4990 4991 4928 4928 4914 4918 4919 4919 4919 4919 4919 491
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4869 4868 4831 4841 4859 4822 R start 4890 4931 4909 4914 4929 4914 4929 4914 4951 4969 4969 4974
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4869 4868 4868 4831 4841 4859 4822 R start 4890 4931 4991 4928 4891 4919 4882 4951 4969 4954 4988
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4868 4854 4868 4871 4859 4822 R start 4990 4991 4992 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4918 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4869 4868 4868 4831 4841 4859 4822 R start 4890 4931 4991 4928 4891 4919 4882 4951 4969 4954 4988
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATA	4871 4849 4834 4868 4854 4868 4831 48459 4822 R start 4990 4991 4914 4928 4991 4914 4918 4919 4951 4951 4951 4951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 96ZM651.8	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CTGGG	4871 4849 4834 4868 4881 4841 4859 4822 R start 4890 4914 4929 4914 4929 4914 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4919 4
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1	TATCAAGCAGGACATAACAAGGTAGGATCTCTACAATACTTGGCACTAACAGCATTAATAC-CT	4871 4849 4834 4868 4854 4868 4831 48459 4822 R start 4990 4991 4914 4928 4991 4914 4918 4919 4951 4951 4951 4951

Fig. 13-14

93BR020.1	TTTTAGAGGAGCTTAAGAATGAAGCTGTTAGACATTTTCCTAGGCCATGGCTCC	CATAGCT 5010
92NG083.2	-GACC	
90CF056.1	A	
92RW009.6	CACC-GCAA	
92NG003.1	-GAAT-	
93BR029.4	AGTT	
94CY032.3	GACA	
96ZM651.8	CACC-GAA	5011 A 5021
96ZM751.3		
94CY017.41 94IN476.104	-GACACAT-AT-AT-AT	
941N4/0.104		3002
93BR020.1	TAGGACAACATATCTATAACACCTATGGGGATACTTGGGAAGGAGTTGAAGCA	ATCATAA 5070
92NG083.2	C-	
90CF056.1	T	
92RW009.6	AGGAT	A 5074
92NG003.1	TTT	
93BR029.4	CG-ATC	
94CY032.3	GTACTT-	A 5108
96ZM651.8	G-A-TACTCG-T	
96ZM751.3	ACGGTC	
94CY017.41	T-CTT-	
94IN476.104	G	I-A 5062
93BR020.1	GGATATTGCAACAACTACTGTTTATCCATTTCAGAATTGGGTGCCGTCATAGCA	AGAATAG 5130
92NG083.2	-AC-AAA	
90CF056.1	-A-CGCAA	5149
92RW009.6	-ATC	5134
92NG003.1	-AT-AA	
93BR029.4	-ATCAT-AA	
94CY032.3	-ATAAT-	5168
96ZM651.8	-ACAGC	
96ZM751.3	-ACAAA	
94CY017.41	-ATATCAA	
94IN476.104	-A-C-C	5122
	TAT 1st exon start VPR end	
0200000 1		PACATCC E196
93BR020.1	GCATTACTCGACAGAGAAGAG.TAAGAAATGGAACTAGATCCTAACT	FAGATCC 5186
92NG083.2		G 5227
92NG083.2 90CF056.1	C	G 5227 G 5205
92NG083.2 90CF056.1 92RW009.6	C	G 5227 G 5205 G 5190
92NG083.2 90CF056.1 92RW009.6 92NG003.1		G 5227 G 5205 G 5190 G 5212
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	C	G 5227 G 5205 G 5190 G 5212
92NG083.2 90CF056.1 92RW009.6 92NG003.1		5227 G- 5205 G- 5190 G- 5212 G- 5228
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		G 5227 G 5190 G 5212 G 5210 G 5228 G 5187
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		G- 5227 G- 5205 G- 5190 G- 5212 G- 5228 G- 5197 G- 5215
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		G- 5227 G- 5205 G- 5190 G- 5212 G- 5228 G- 5197 G- 5215
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		5227 G- 5205 G- 5190 G- 5212 G- 5210 G- 528 G- 5187 G- 5197 G- 5197 5215
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		5227G 5205G 5190G 5212G 5210G 5228G 5187G 5197G 5215G 5178 AATGGTG 5246
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		5227G 5225G 5190G 5212G 5210G 52187G 5197G 5197G 5178 AATGGTG 5246GT 5287
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		5227G 5205G 5190G 5212G 5210G 5228G 5187G 5197G 5215G 5178 AATGGTG 5246GT 5287AA 5265
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		5227G 5205G 5190G 5212G 5210G 5187G 5187G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5250
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		5227G 5225G 5212G 5210G 5228G 5187G 5187G 5215G 5215G 5215G 5216G 5216G 5216G 5216G 5216G 5216G 5216G 5250ATA 5265CAC 5250ATA 5272
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4		G 5227G 5190G 5212G 5210G 5218G 5197G 5197G 5178G 5178G 5215G 5270AA 5265AA 5272
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		G 5227G 5190G 5212G 5210G 5218G 5187G 5197G 5178 AATGGTG 5246GT 5287AA 5265ATA 5272AA 5288
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4		G 5227G 5190G 5212G 5210G 5218G 5187G 5187G 5178G 5178G 5278G 5287AA 5265CAC 5250ATA 5272AA 5272AA 5278CC 5288
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		G 5227G 5219G 5210G 5210G 5228G 5187G 5215G 5215G 5215G 5216G 5216G 5216G 5216G 5216G 5250AA 5270AA 5270AA 5270AA 5278CAC 5257
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3. 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-A	G 5227G 5190G 5210G 5210G 5218G 5197G 5197G 5178 AATGGTG 5246GT 5287AA 5265ATA 5272AA 5270AA 5288C-C 5257C-C 5238
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		G 5227G 5205G 5210G 5210G 5218G 5197G 5197G 5215G 5215G 5216G 527AA 5265CAC 5257CAC 5238 REV 1** exon start
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		G 5227G 5205G 5219G 5210G 5218G 5187G 5197G 5215G 5215G 5217 AATGGTG 5246GT 5287AA 5265CAC 5250ATA 5272AA 5272AA 5272AA 5278CAC 5257CAC 5258 REV 1* exon start GCAGGAA 5306
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		5277G 5225G 5210G 5210G 5210G 5228G 5187G 5215G 5215G 5215G 5216G 5216G 5216G 5265CAC 5250ATA 5270AA 5270AA 5270AA 5270AA 5270CAC 5238C-C 5238C-C 5238CV 1* exon start 5347
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		G 5227G 5219G 5210G 5210G 5218G 5197G 5197G 5178 AATGGTG 5246GT 5287AA 5265ATA 5272AA 5270AA 5288C-C 5247CAC 5257CAC 5257CAC 5238 REV 1* exon start GCAGGAA 5306 5347 5325
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		G 5227G 5210G 5210G 5210G 5218G 5197G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5270AA 5288C-C 5247C-C 5257C-C 5238 REV 1* exon start GCAGGAA 5306 5325 5325 5325
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG031.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		G 5227G 5190G 5210G 5210G 5218G 5187G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5250ATA 5270AA 5278CAC 5257CAC 5258 REV 1** exon start GCAGGAA 5306 5347 5310 5332
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-A	5227G 5228G 5210G 5210G 5218G 5187G 5197G 5215G 5215G 5215G 5216G 5217 AATGGTG 5246GT 5287AA 5265CAC 5250ATA 5272AA 5272AA 5278CAC 5238 REV 1* exon start GCAGGAA 5347 5325 5332 5332
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	-A	G 5227G 5210G 5210G 5210G 5218G 5197G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5270AA 5272AA 5272AA 5288C-C 5247CAC 5257CAC 5238 REV 1* exon start GCAGGAA 5347 5332 5330 5330 5330
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		G 5227G 5210G 5210G 5210G 5218G 5197G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5250ATA 5272AA 5288C-C 5247C-C 5257C-C 5257CAC 5257CAC 5257CAC 5238 REV 1** exon start 3CAGGAA 5306 5332 5332 5330 5330 5330 5348 5348
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	-A	G 5227G 5210G 5210G 5210G 5218G 5187G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5250ATA 5270AA 5270 5273 5273 5330 5330 5330 5330 5330 5330
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		G 5227G 5210G 5210G 5210G 5218G 5187G 5197G 5178 AATGGTG 5246GT 5287AA 5265CAC 5250ATA 5272AA 5272AA 5278CAC 5257CAC 5258 REV 1* exon start GCAGGAA 5306 5347 5332 5330 5330 5330 5348 5348 5348 5348

Fig. 13-15



93BR020.1	GAAGCGGAGACAGCGACCAAGAACTCCTCAAAGCAGTCAGATACATCAAGATTTTGTACC	5366
92NG083.2	A-GATA-CCC	5407
90CF056.1	CAC	5385
92RW009.6	ACC-AT-	5370
92NG003.1	GCG-G	5392
93BR029.4		5390
94CY032.3		
	ATG-GTTGCAGGCACA	5408
96ZM651.8	CGGACCC-AT-	5367
96ZM751.3	GAGCGGGATACC-AT-	5377
94CY017.41	ACCCGAGCTCA-AGACACC-A	5395
94IN476.104		5358
		2326
TAT/REV 1st ex	con end — VPU start	
93BR020:1	AAAGCAGTAAGTATTGTTAAGCATATGTAATGTCAAATTTGT	5408
92NG083.2	G-AAC-ATT-AT	5452
90CF056.1	A	5420
92RW009.6		
	G-AAAACTA-TTCA	5415
92NG003.1		5437
93BR029.4	T	5435
94CY032.3		5447
96ZM651.8	T-GACTAGCAAGAGTAAAT-	5414
96ZM751.3		
	AGAAGT-AT-G	5434
94CY017.41		5440
94IN476.104		5405
	·	
93BR020.1	TAGCAATAGGCATAGCAGCATTAATAGTAGCACTAATAATAACAATAGTTGTGTGGACTA	5468
92NG083.2		
	A-ATATCTG-CT-CGC-G-C-C-AG	5502
90CF056.1	GTAGGCGAT-TCG-CGAC-	5477
92RW009.6	A-ATCTAT-CATC-GGGGTGT	5475
92NG003.1	A-AT-GCT-CAG-CG-CGC-G-C	5493
93BR029.4	T	
		5495
94CY032.3	A-ATCTGG-CATG-C-GGTTGTAT	5507
96ZM651.8	ATAG-GAGGGC-C-CG	5474
96ZM751.3	ATAGAGGTC-	5494
94CY017.41	-AT-T-G-CATG-C-GTTCTGAA	5500
	ATAG-TAGGC-	
741N410.104	AIAG I AG G	5465
93BR020.1	TAGCATATATAGAATATAAGAAACTGGTAAGGCAAAGAAAAATAAAT	5528
	TAGCATATATAGAATATAAGAAACTGGTAAGGCAAAGAAAAATAAAT	
93BR020.1	TTGAAAAGAAG-AG-A-ACT-G-T-	5528 5562
93BR020.1 92NG083.2 90CF056.1	TT	5528 5562 5537
93BR020.1 92NG083.2 90CF056.1 92RW009.6	TT	5528 5562 5537 5535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TT	5528 5562 5537 5535 5541
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	T-T	5528 5562 5537 5535
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TT	5528 5562 5537 5535 5541
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	TT	5528 5562 5537 5535 5541 5555 5567
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TT	5528 5562 5537 5535 5541 5555 5567 5534
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5528 5562 5537 5535 5541 5555 5567 5534 5554
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5528 5562 5537 5535 5541 5555 5567 5534 5554 5560
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5528 5562 5537 5535 5541 5555 5567 5534 5554
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TT	5528 5562 5537 5535 5541 5555 5567 5534 5554 5560
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5528 5562 5537 5535 5541 5555 5567 5534 5554 5560
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TT	5528 5562 5537 5535 5541 55567 5534 5554 5560 5525
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TT	5528 5562 5537 5535 5541 5555 5567 5554 5560 5525
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	TT	5528 5562 5537 5535 5541 5555 5567 5534 5560 5525
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92RW009.6	TT	5528 5562 5537 5535 5541 5555 5567 5534 5560 5525 5588 5622 5597 5595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TT	5528 5562 5537 5535 5541 55567 5534 55560 5525 5588 5622 5597 5601
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92BR020.1 92RW009.6	TT	5528 5562 5537 5535 5541 5555 5567 5534 5560 5525 5588 5622 5597 5595
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TT	5528 5562 5537 5535 5541 5555 5560 5525 5688 5622 5597 5595 5615
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TT	5528 5528 5537 5535 5541 5555 55634 5554 5554 55525 5625 5625 5627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TT	5528 5562 5537 5535 5541 5555 5567 5534 5560 5525 5625 5625 5601 5601 5601 5601 5601 5601 5601 560
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TT	5528 5562 5537 5535 5541 5555 5567 5534 5560 5525 5682 5599 5615 5615 5627 5627 5627 5627 5627 5627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5528 55262 5537 5535 5541 55557 5534 55560 5525 5627 5627 5591 5627 5594 5627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5528 5562 5537 5535 5541 5555 5567 5534 5560 5525 5682 5599 5615 5615 5627 5627 5627 5627 5627 5627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5528 55262 5537 5535 5541 55557 5534 55560 5525 5627 5627 5591 5627 5594 5627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TT	5528 5528 5537 55335 55541 55567 55567 55560 55525 5625 5627 5615 5627 5614 5628 5588
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TT	5528 5528 5537 5535 5541 5555 5567 5534 5560 5525 5625 5627 5595 56015 5627 5594 5620 5585
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TT	5528 5528 5537 5535 5541 55557 5554 55560 5525 5622 55995 56615 56627 5594 56294 5620 5585 5648 5682
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104	TT	5528 5528 5537 5535 5535 5556 5555 5560 5525 5627 55627 55627 55627 55627 55627 55627 55627 55627 55627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1	TT	5528 55282 55375 55341 55567 55567 55560 55595 56627 55627 55614 56591 56627 55614 5688 5688 56887 5588 882 55991 5688 5688 5688 5688 5688 5688 5688 568
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104	T-T	5528 5528 5537 5535 5535 5556 5555 5560 5525 5627 55627 55627 55627 55627 55627 55627 55627 55627 55627
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1	T-T	5528 55282 55375 55341 55567 55567 55560 55595 56627 55627 55614 56591 56627 55614 5688 5688 56887 5588 882 55991 5688 5688 5688 5688 5688 5688 5688 568
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92RG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TT	5528 5528 5537 5535 5534 55557 55541 55560 5525 5622 5560 55615 56294 56294 56294 56294 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56295 56
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG003.1 93BR020.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	T-T	5528 55282 55375 55341 555575 55560 55555 566277 556627 556627 556627 556627 556655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 93BR020.1 93BR020.1 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	T-T	5528 55282 55375 55341 555575 55560 55 882 55595 56627 556627 556627 556627 556655 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 5665
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	T-T	55637 55534 55537 555567 555567 555695 56627 556627 556667 556667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.4 94CY032.3 96ZM651.8 96ZM003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3	TT	5528 55282 55375 55341 555575 55560 55 882 55595 56627 556627 556627 556627 556655 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 566555 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 56655 5665
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.4 94CY032.3 96ZM651.8 96ZM003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 96ZM651.8 96ZM751.3	T-T	55637 55534 55537 555567 555567 555695 56627 556627 556667 556667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 56667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5667 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5677 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777 5777

Fig. 13-16

93BR020.1	GAAAACTTATGGGTTACAGTCTATTATGGGGTACCTGTGTGGAAAGAAGCAACCACTACT	5708
92NG083.2	TGC	5742
	CGAC	5717
90CF056.1	A-CGCGAGCC	5715
92RW009.6	A.C. C.	5721
92NG003.1	A-TGCGATCC	5732
93BR029.4	A-CGC	
94CY032.3	A-CGCT	5747
96ZM651.8	-GGGAA	5714
	-GGAGC	5734
96ZM751.3	TGTGATC-TC	5737
94CY017.41	-TG	5705
94IN476.104	-GGAA	5705
93BR020.1	CTATTCTGTGCATCAGATGCTAAATCATATGAAAAAGAGGCACATAATGTCTGGGCTACA	5768
92NG083.2		5802
	GGGCAAAG	5777
90CF056.1	TT	5775
92RW009.6	T	5781
92NG003.1	T	
93BR029.4	TAA	5792
94CY032.3	TAAGGA-TAA	5807
96ZM651.8		5774
	TT	5794
96ZM751.3		5797
94CY017.41		
94IN476.104	TG-G-GAA	5765
93BR020.1	CATGCTTGTGTACCCACAGATCCCAATCCACAAGAAGTAGTTCTGGAAAATGTAACAGAA	5828
	C	5862
92NG083.2		5837
90CF056.1	GA-GCAG	
92RW009.6	C	5835
92NG003.1	GAAC	5841
93BR029.4	C	5852
94CY032.3	C	5867
	CCATG	5834
96ZM651.8		5854
96ZM751.3	C	
94CY017.41	AAAC	5857
94IN476.104	CC	5825
0200000 1	AGGTTTAATATGTGGGAAAATAACATGGTAGAACAAATGCATACAGATATAATCAGTTTA	5888
93BR020.1	AGGITTAATATGTGGGAAAATAACATGGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG	
		5922
92NG083.2	-ATGGAG	5922
90CF056.1	CCC	5897
	C	5897 5895
90CF056.1 92RW009.6	C	589 7 5895 5901
90CF056.1 92RW009.6 92NG003.1	C	5897 5895
90CF056.1 92RW009.6 92NG003.1 93BR029.4	C	589 7 5895 5901
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		5897 5895 5901 5912 5927
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	-C	5897 5895 5901 5912 5927 5894
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-C	5897 5895 5901 5912 5927 5894 5914
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	C	5897 5895 5901 5912 5927 5894 5914 5917
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	C	5897 5895 5901 5912 5927 5894 5914
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	5897 5895 5901 5912 5927 5894 5914 5917
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5948 5957 5955
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5948 5957 5955
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5961 5972
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987 5954 5974
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987 5954 5974
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-C	5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	-C	5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.1 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974 5977 5945
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	-C	5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5984 5974 5974 5974 5945
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.1 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	-C	5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5955 5961 5972 5987 5974 5974 5974 5974 5974 5975 5945
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8		5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5955 5961 5972 5987 5954 5974 5974 5974 5974 5993 5991
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 94IN476.104		5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5955 5961 5972 5987 5974 5974 5974 5974 5974 5975 5945
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5955 5961 5972 5987 5954 5974 5974 5974 5974 5993 5991
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974 5974 5991 6008
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3		5897 5895 5901 5912 5927 5894 5917 5885 5948 5982 5957 5955 5961 5972 5987 5974 5974 5974 5974 5974 5993 5991 60021 6008 6017
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5955 5961 5972 5987 5974 5974 5974 5974 5974 5971 6021 6008 6017 6014
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3		5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5948 5957 5955 5961 5972 5974 5974 5974 5993 5993 5991 6001 6001 6014 6025
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41		5897 5895 5901 5912 5927 5894 5914 5917 5885 5948 5982 5957 5961 5972 5987 5974 5974 5974 5974 5991 6001 6008 6017 6014 6014 6019
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41		5897 5895 59912 59927 5894 5914 5917 5885 5948 5957 5955 5961 5972 5974 5974 5974 5993 5991 6001 6001 6014 6025

Fig. 13-17

	ACTCTGAAGGAAGATCCAGAGGCAATACAAAACTGTTCTTTCAATACAACCACAGAA	6053
93BR020.1	G-AG-AA-CA-AGAAATACG-T	6075
92NG083.2 90CF056.1	$\Delta C = C - C \Delta C C C - \Delta C T - \Delta C - T - T - C - T - T - T - T - T - T -$	6047
92RW009.6	CCATC - CATCA - ACC AAT - A C TG TG	6045
92NG003.1	CTCT - CAT ACA CAAAC - ACT A C T	6081
93BR029.4	CTCAA-G-A-GCCAGGG-CAAT-	6062
94CY032.3	A = C = G = - T = C	6071
96ZM651.8	л - л л т - ССЛТСА СС САТС	6068
96ZM751.3	λ C Π λ T - T - T - T - T - T - T - T - T - T	6079
94CY017.41	CAGAGCCCCATTAGAAATACAAT-	6073 6020
94IN476.104	TACTA-TAC-GATTATATCTG	6020
	ATAAGAGATAAGCAGCTGAAAGTACATGCACTTTTTTATAAACTTGATATAGTACAAATC	6113
93BR020.1	-GGGGCAAA-GA-T-CGG-GG	6135
92NG083.2	CGG	6107
90CF056.1	TGT	6105
92RW0097.6 92NG003.1		6141
93BR029.4	C	6122
94CY032.3	$-C = \lambda - \lambda \lambda \lambda - T G C G - A G - C T$	6131
96ZM651.8	$C = \lambda = 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1$	6128
96ZM751.3	mAG_AG_CGCT	6139
94CY017.41	CGGGGGG	6133
94IN476.104	CA-A-GCAGTGGC-C-A	6080
	2 2 M 2 C 2 C 2 M 2	6136
93BR020.1	AACAAGGATGAC	6158
92NG083.2	-GTT-GGA-TG-CT-GT	6127
90CF056.1	GGCTCAG	6140
92RW009.6	T-GCAAGTAATAACAGT AGTCATCAG	6170
92NG003.1	G TGGTA - A - TAAT	6163
93BR029.4	TGCTAG.AGTGCCAATTAATGGTAGTAATAGGAATAATAGT-CAGA-GAG-	6184
94CY032.3	TGACGACTCTGAGACTGGCAACT	6172
96ZM651.8	TGATCCTGA	6159
96ZM751.3 94CY017.41	G-TGAAAGTG-AAA-GAATA.CATCAGGTAGTCTCTG	6177
94IN476.104		6118
J41N470.104		
93BR020.1	CAGACTAATAAATTGTGATGCCTCAACCATTACACAGGCTTGTCCAAAGGTATCTTGGGA	6196
92NG083.2	TCCATAA	6218
90CF056.1	TCGC-TT	6187
92RW009.6	TGT	6200
92NG003.1	TG	6230
93BR029.4	G	6223 6244
94CY032.3	T-TGT	6232
96ZM651.8	TT	6219
96ZM751.3	TTTATT	6237
94CY017.41	TA-AA-C-TT T-TA-AA-C	6178
94IN476.104	T-TAAAAAA	01.0
0200000 1	TCCAATTCCCATACATTATTGTGCTCCAGCTGGTTATGCGATTCTAAAGTGTAATGAGAA	6256
93BR020.1	CT	6278
92NG083.2	7 - T CA-T	6247
90CF056.1 92RW009.6	CTCAAT	6260
92NG003.1	CC	6290
93BR029.4		6283
94CY032.3	GTAT	6304
96ZM651.8	CA-T	6292
96ZM751.3	CC-T	6279
94CY017.41	GT	6297
94IN476.104	CATG-	6238
		6316
93BR020.1	AAATTTCACAGGGACAGGGTCATGCAAGAATGTCAGTACAGTACAATGTACACATGGAAT	6338
92NG083.2	GG-G-AATAACT-A	6307
90CF056.1		6320
92RW009.6	GTAACATATTT	6350
92NG003.1	AATGCG	6343
93BR029.4	т дтт С С д СТ - G G С Т	6364
94CY032.3	C = C + C + C + C + C + C + C + C + C +	6352
96ZM651.8 96ZM751.3	O O D D D D D D D D D D D D D D D D D D	6339
0400017 41	C - C A = A T - A	6357
94 TN476 104	4 G-CAATACG-G	6298
5		

Fig. 13-18

	CAGAGAT	6373
93BR020.1	TAAACCAGTGGTATCCACTCAATTGTTGTTAAATGGCAGCCTAGCAGAAGGAGAGAT	6395
92NG083.2	G	6364
90CF056.1	G	
92RW009.6	CGAGCCTA	6377
92NG003.1	AAC-ACTTA	6407
93BR029.4	AAAAA	6400
94CY032.3	CACGAG-	6421
96ZM651.8	C	6409
96ZM751.3	C_{-} A_{-} A_{-} A_{-} A_{-} A_{-} A_{-}	6396
		6417
94CY017.41	GAA	6355
94IN476.104		
	AGTAATCAGATCTCAAAATATCTCAGATAATGCAAAAACCATAATAGTGCACCTTAATGA	6433
93BR020.1	-AGTGTACA-CGTGA-	6455
92NG083.2	-AGTGT-ACA-CGT	6424
90CF056.1	CATAA	6437
92RW009.6	-ATAA-CCAACC	6467
92NG003.1	AGAAAGA	6460
93BR029.4	-AT	
94CY032.3	.т А А С А - С	6481
96ZM651.8	л	6469
96ZM751.3	λ TA Δ GΔ C TA A - T	6456
94CY017.41		6477
	-ACTATAT	6415
94IN476.104	-A-1-C1-1-1-G-1-1	
	ATCTGTACAGATTAATTGTACAAGACCCAACAACAATACAAGAAAAAGAATATCTTTAGG	6493
93BR020.1	TAG-AG-ATCTTTTTT	6515
92NG083.2	TAG-AG-A	6484
90CF056.1	-C-AA-CCACT	6497
92RW009.6	GAT-CT-CTTGCA-A	
92NG003.1	-AAGGA	6527
93BR029.4	G-CTC-AA	6520
94CY032.3	CGA-A	6541
96ZM651.8	A-G-AGTGGTTCTAGAA	6529
96ZM751.3		6516
94CY017.41	CCTACGCT	6537
	CAA-AGTATCTAGGA	6475
94IN476.104	CAA-AGIA	
	ACCAGGACGAGTATTTTATACAACAGGAGAAATAATAGGAGACATCAGAAAGGCACATTG	6553
93BR020.1	ACGCGTTTAC-AC-A	6575
92NG083.2	A - CG - C - G - C - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C - A - C	6544
90CF056.1	GTCC-A	6557
92RW009.6	ACG	6570
92NG003.1	TACGCGT	
93BR029.4	C	6580
94CY032.3	CT-ACGGGTTTAC-A	6601
96ZM651.8	A-ACCGAC-A	6589
96ZM751.3		6576
94CY017.41	GACCAT-AGAC-A	6594
94IN476.104		6535
941N4/6.104	<u> </u>	
0200000 1	TAACGTTAGTGGAACACAATGGAGGAACACGTTAGCAAAGGTAAAGGCAAAGTTAGGGTC	6613
93BR020.1	TAT-AG-G-TAAGTC-CACAAA	6635
92NG083.2	TAAG-CATG-TTAC-AAAT	6604
90CF056.1	TAAG-CATG-TICACCGIAC-AAAAAAAAAAAA-	6617
92RW009.6	CTC-AAT-GATCAGCA-AATCA	6614
92NG003.1		
93BR029.4	ATG-GAAA-C-	6640
94CY032.3	AATG-TATGCAA-GT-AGT-A-G-AGAAAAG	6661
96ZM651.8		6649
96ZM751.3	A-CA-GGCAATTCCAGGGT-AA-AAA	6636
94CY017.41		6654
94IN476.104		6595
941N4/6.104	or Artifaction of the control of the	
0200000 1	TTATTTCCCTAATGCAACAATAAAATTTAACTCATCCTCAGGAGGGGACCTAGAAAT	6670
93BR020.1	AATC-ATAAAAG-ACCCTGTG	6692
92NG083.2	AATC-ATAAAG-ACGCAAA-GG-	6661
90CF056.1	AC-CGAAC	6677
92RW009.6	CCTGAGCATTATTGAACGTT	6668
92NG003.1	GGTCTAACGTCCG	6697
93BR029.4	C	
94CY032.3	ACTCAAGCTCCGT	6718
96ZM651.8	λλ λCΔC	6706
96ZM751.3	λλ GC GCΔC	6693
0400017 41	CA-A	6711
94TN476 104	GC-CAAGTCCA	6652
7471410.10		

Fig. 13-19

93BR020.1	TACAAGGCATAATTTTAATTGTATGGGAGAATTTTTCTACTGTAATACAGATGAACTGTT	6730
	CAGAGATCTCA-G	6752
92NG083.2	GCAGATCA-GG	6721
90CF056.1	CAGGATCA-GCT	6737
92RW009.6	CAG	6728
92NG003.1	CAGATCA-G-T	
93BR029.4	T	6757
94CY032.3	CAGCAATCACACC	6778
96ZM651.8	CAGC	6766
	CAGCTCTCAA	6753
96ZM751.3	CA-TGGCATCACA-GC	6771
94CY017.41	-GTCAGC	6712
94IN476.104	-GTCAGC	0,12
		6767
93BR020.1	TAATGACACAAAATTCAATGACACAGGATTCAATGGC	6767
92NG083.2	A-T-AT-TTAGTAAT-TA-T-AT-AG	6783
90CF056.1	AGT-GTTGGGAAATGCACT-ATTACACATCAAATGACACAAAGGGAAACGA	6778
	AGCTGGAGTAAA-GAA-TGGCACC-GGC-GTCAAATGGCACAGAATTA	6792
92RW009.6	ATGG-GGGAATGAC	6755
92NG003.1	ATGG-GGGAATGAC	6779
93BR029.4	GT-GA-AATGGC	
94CY032.3	AGTC-CA-GCAAGTAACA-T-CAA-TACAGATTCTACAAATTC	6835
96ZM651.8	G-ATA-ATT-TACAGAAA-TATGGT-CAC	6804
96ZM751.3	GTGTTTAATGGT-CAATTCTAATGA-AAGTAATTCG	6802
	GTGTGG-GGAACGTGT-GAA-GGGCC-TACACACCTAATAACAC	6828
94CY017.41	C-GTT-CAATGGT-CAGACATGC-TACATACAAATTCCAGTTCAGA	6772
94IN476.104	C-GTT-CAATGGT-CAGACATGC-TAC-ATACAMMTTCCAGTTCCAG	
		C020
93BR020.1	ACTATCACTCTCCCATGTCGAATAAAACAAATTGTAAACATGTGGCAGGAAGT	6820
92NG083.2	AA	6836
90CF056.1	λ - ΔCTΔGCΔ	6832
	AAA	6845
92RW009.6	AAAAG	6806
92NG003.1	T	6832
93BR029.4		
94CY032.3	ACAACACTGG	6889
96ZM651.8	CACAGAT	6856
96ZM751.3	CTGT-ACA	6855
0400017 41	CANTGGA-GA-TCCAAAAG	6888
94CY017.41	CTCTGTA-G	6826
941N476.104	CICIGI	
		6880
93BR020.1	GGGACGAGCAATGTATGCCAATCCCATTGCAGGAAACATTACCTGTAACTCAAATATTAC	
0.0110000000		
92146083.2	ACT	6896
92NG083.2	Δ	6896 6892
90CF056.1	ATGGTA	
90CF056.1 92RW009.6	ATGGTACCCCAGTAA-GGTACCCCAGTAA-GGTACCCAGTAA-GGTAC	6892
90CF056.1 92RW009.6 92NG003.1	ATGGTACCCCATGGTACCCA	6892 6905 6866
90CF056.1 92RW009.6	ATGGTACCCCAGTA-A-GGTAC	6892 6905 6866 6892
90CF056.1 92RW009.6 92NG003.1	A	6892 6905 6866 6892 6949
90CF056.1 92RW009.6 92NG003.1 93BR029.4	A	6892 6905 6866 6892 6949 6916
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A	6892 6905 6866 6892 6949 6916
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A	6892 6905 6866 6892 6949 6916
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	A CC CCA TG GTA	6892 6905 6866 6892 6949 6916
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A	6892 6905 6866 6892 6949 6916 6915
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A	6892 6905 6866 6892 6949 6916 6915 6948
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	A CC CCA TG GTA	6892 6905 6866 6892 6949 6916 6915 6948 6886
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A CC CCA TG - GTA	6892 6905 6866 6892 6949 6916 6915 6948 6886
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	A CC CCA TG - GTA	6892 6905 6866 6892 6916 6915 6948 6886 6925 6947 6940
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 — 93BR020.1 92NG083.2 90CF056.1	A CC CCA TG - GTA	6892 6905 6866 6892 6949 6916 6915 6948 6886
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	A CC CCA TG - GTA	6892 6905 6866 6892 6916 6915 6948 6886 6925 6947 6940
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA	6892 6905 6866 6892 6916 6915 6948 6886 6925 6947 6953
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A CC CCA TG - GTA	6892 6905 6866 68949 6916 6915 6948 6886 6927 6940 6953 6914 6914
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A CC CCA TG - GTA	6892 6905 6866 6892 6916 6915 6948 6886 6927 6940 6953 6991
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A CC CCA TG - GTA	6892 6905 6866 6892 6916 6915 6948 6927 6940 6953 69914 6991 6996
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A CC CCA TG GTA CC CCA GTA - A - G GTA CC CCA GTA - A - G GTA CC CC C - G - T A - GA C G G G	6892 6905 68862 6949 6916 6915 6948 6925 6947 6940 6991 6991 6966
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA CC CCA GTA - A - G GTA CC CCA - GTA - A - G GTA CC CCA - GTA - A - G GTA CC G G G	6892 6905 68662 6916 6915 6915 6948 688 6947 6940 6991 6991 6996 6993
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA CC CCA GTA - A - G GTA CC CCA - GTA - A - G GTA CC CCA - GTA - A - G GTA CC G G G	6892 6905 68862 6949 6916 6915 6948 6925 6947 6940 6991 6991 6966
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG GTA CC CCA GTA - A - G GTA CC CCA GTA - A - G GTA CC CC C - G - T A - GA C G G G	6892 6905 68662 6916 6915 6915 6948 688 6947 6940 6991 6991 6996 6993
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A CC CCA TG - GTA CC - CCA GTA - A - G GTA CC - CCA - GTA - A - G GTA CC CCA - GTA - A - G GTA CC - G - G G - G G - G	6892 6905 68662 6916 6915 6915 6948 688 6947 6940 6991 6991 6996 6993
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A CC CCA TG GTA CC CCA GTA - A - G GTA C GA C GA C GA C GA C G G G G G G G G	6892 6905 68962 6916 6915 6948 6947 6943 6940 69976 69976 69934 69934 6985
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA	6892 6905 68862 6949 6916 6915 6948 688 6947 6940 69914 69914 69916 6993 6993 6993 6993 6993 6993
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A CC CCA TG - GTA CC CCA GTA - A - G GTA CC CCA - GTA - A - G GTA CC CCA - GTA - A - G GTA CC CC CG - T A - GA CC G - G G - G	6892 6905 6866 68949 6916 6915 6948 6886 6947 6940 6991 6996 6993 6993 6993 6993 6993
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA C CCA CTA - A - G - GTA C CCA - GTA - A - G - GTA C G - G G - G G - G	6892 6905 68862 6916 6915 6915 6948 6886 6947 6940 69514 69916 6993 69934 6993 6993 6993 6993 6993 69
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A CC CCA TG - GTA C	6892 6905 6866 68949 6916 6915 6948 6886 6947 6953 6914 69976 6993 6993 6993 6993 6993 6993 699
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	A CC CCA TG - GTA C	6892 6905 68862 6916 6915 6918 68948 6914 69940 69914 69916 69934 69934 69934 69934 69934 69934 69934 69934 69934 69934 69934
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA CC CCA GTA - A - G GTA CC CCA - GTA - A - G GTA CC CCA - GTA - A - G GTA CC CC C - G - T A - GA C - G - G G - G G - G	6892 6905 6866 68949 6916 6915 6948 6886 6947 6953 6914 69976 6993 6993 6993 6993 6993 6993 699
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 	A CC CCA TG - GTA CC CCA GTA - A - G GTA CC CCA - GTA - A - G GTA CC CCA - GTA - A - G GTA CC CC C - G - T A - GA C - G - G G - G G - G	6892 6905 68862 6916 6915 6918 68948 6914 69940 69914 69916 69934 69934 69934 69934 69934 69934 69934 69934 69934 69934 69934
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 94CY017.41 94IN476.104	A	6892 6905 6862 6916 6915 6915 6948 6886 6947 6940 6991 6996 6993 6993 6993 6993 6993 6993
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8	A	6892 6905 68966 68949 6916 69918 688 6 69440 69914 69976 69934 69934 69934 69934 69934 69934 69934 7001 7001 7001 70026
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A	6892 6895 6896 68949 6915 69948 69945 69945 69940 6995 69934 6996 69934 69934 6997 70013 6977 70013 7001 7001 7002 7053
90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A	6892 6905 68966 68949 6916 69918 688 6 69440 69914 69976 69934 69934 69934 69934 69934 69934 69934 7001 7001 7001 70026

Fig. 13-20

93BR020.1	TAAAGTAGTAGAAATTGAACCACTAGGAGTAGCACCCACC	7045
92NG083.2	ACAG	7067
	AA	7060
90CF056.1		7073
92RW009.6		7073
92NG003.1	AGGAG	
93BR029.4		7060
94CY032.3	A-GGGGGGG	7111
96ZM651.8	GGG	7096
	G	7086
96ZM751.3		7113
94CY017.41	A	7054
94IN476.104	G	7034
93BR020.1	GAAGAGAAAAGAAGAGCAGTGGGACTAGGAGCTCTGTTCCTTGGGTTCTTGGGAGCAGC	7105
92NG083.2	-GAAAA	7127
	-GA-GTCT	7120
90CF056.1	-GAAAAAA	7133
92RW009.6	-GAA	7094
92NG003.1	-GAGAA	
93BR029.4	TAAA-GT	7120
94CY032.3	-CA-TA-TAGCA	7171
96ZM651.8	-GA	7156
	-GAA	7146
96ZM751.3	-GATG-C	7173
94CY017.41	-GA	
94IN476.104	-GT	7114
93BR020.1	TGGAAGCACTATGGGCGCGGCGTCAATAACGCTGACGGTACAGGCCAGACAATTATTGTC	7165
92NG083.2	AG	7187
	AG	7180
90CF056.1	A	7193
92RW009.6	A	
92NG003.1	ATT	7154
93BR029.4	AC	7180
94CY032.3	AG	7231
96ZM651.8	AG-G	7216
	ATT	7206
96ZM751.3	A	7233
94CY017.41	AC	
94IN476.104	A	7174
93BR020.1	TGGAATAGTGCAACAGCAGAGCAATCTGCTGAGGGCTATTGAAGCGCAACAGCATCTGTT	7225
93BR020.1	TGGAATAGTGCAACAGCAGAGCAATCTGCTGAGGGCTATTGAAGCGCAACAGCATCTGTT	7225 7247
92NG083.2	CAAA	7247
92NG083.2 90CF056.1	C	7247 7240
92NG083.2 90CF056.1 92RW009.6	C	7247 7240 7253
92NG083.2 90CF056.1	C	7247 7240 7253 7214
92NG083.2 90CF056.1 92RW009.6	C	7247 7240 7253 7214 7240
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		7247 7240 7253 7214
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		7247 7240 7253 7214 7240
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		7247 7240 7253 7214 7240 7291 7276
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		7247 7240 7253 7214 7240 7291 7276 7266
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7247 7240 7253 7214 7240 7291 7276 7266 7293
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		7247 7240 7253 7214 7240 7291 7276 7266
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	C	7247 7240 7253 7214 7240 7291 7276 7266 7293
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	C	7247 7240 7253 7214 7240 7291 7276 7266 7293 7234
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		7247 7240 7253 7214 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		7247 7240 7253 7214 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 7353
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7326 7353 7294
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294 7345 7367 7360 7373
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 94CY017.41 94IN476.104 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 7353 7294 7345 7367 7367 7367 7367 7373
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 7353 7294 7367 7360 7373 7334 7360
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 94CY017.41 94IN476.104 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7336 7353 7294 7360 7373 7334 7360 7411
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7313 7274 7300 7351 7336 7326 7353 7294 7367 7360 7373 7334 7360
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7307 7300 7351 7336 7353 7294 7360 7373 7334 7360 7411
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294 7367 7367 7367 7367 7367 7360 7411 7396 7386
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		7247 7240 7253 7214 7240 7291 7276 7266 7293 7234 7285 7300 7313 7274 7300 7351 7336 7326 7353 7294 7345 7360 7373 7334 7360 7411 7396

Fig. 13-21

93BR020.1	TAATGTGCCCTGGAACTCTAGTTGGAGTAATAAATCTCTTGAGGAGATTTGGGGGAACAT	7405
	TAATGTGCCCTGGAACTCTAGTTGGAGTAATAAATCTCTTGAGGAGATTTGGGGGAACAT	
92NG083.2	AT	7427
90CF056.1	A-AGAGTACAC	7420
		7433
92RW009.6	GAAGCAAT	
92NG003.1	TAAT	7394
	-GAGAC	7420
93BR029.4	- C	
94CY032.3	A-TA-T-A-A-T-A-A-T-A-A-TA-A-TA-A-T	7471
96ZM651.8	-GCTATCATCAAAACATAT	7456
		7446
96ZM751.3	-GCTAT	
94CY017.41	CAAAC	7473
	-GCAAAATTAAT	7414
94IN476.104	-GCAAI	1414
93BR020.1	GACCTGGATGGAGTGGGAAAAAGAGGTTAGCAATTACTCAAAAGAATATACAGGTTAAT	7465
92NG083.2	TC-AAGGAACAACC-CCC-G	7487
90CF056.1	TA	7480
	CA-C-ATAAGACATTC	7493
92RW009.6	AC-AIAAGAIIIC	
92NG003.1	AC-AGGACACCCC	7454
93BR029.4		7480
94CY032.3	AC-ATTGC-	7531
96ZM651.8		7516
		7506
96ZM751.3		
94CY017.41		7533
94IN476.104		7474
341N4/6.104		,
93BR020.1	TGAAGACTCGCAGAACCAGCAGGAAAAGAATGAACAAGAATTATTAGCATTGGACAAATG	7525
	A	7547
92NG083.2	AGG	
90CF056.1	GC	7540
92RW009.6	AGG	7553
92NG003.1	AG	7514
93BR029.4	GG	7540
	GCGGG	7591
94CY032.3		
96ZM651.8	G	7576
96ZM751.3	TAGT	7566
	200 1	7593
94CY017.41	AAAA	
94IN476.104	AA-T	7534
2 1 2 1 1 1 1 1 1 1 1 1 1	•••	
		7505
93BR020.1	GGCAAGTCTGTGGAATTGGTTTGACATAACACAGTGGCTGTGGTATATAAAAATATTCAT	7585
		7585 760.7
92NG083.2		760.7
92NG083.2 90CF056.1	A-TA-TA	760.7 7600
92NG083.2		760.7
92NG083.2 90CF056.1 92RW009.6	A-T	760.7 7600
92NG083.2 90CF056.1 92RW009.6 92NG003.1	A-T	7607 7600 7613 7574
92NG083.2 90CF056.1 92RW009.6		760.7 7600 7613 7574 7600
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		7607 7600 7613 7574
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		760.7 7600 7613 7574 7600 7651
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		7607 7600 7613 7574 7600 7651 7636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	T	7607 7600 7613 7574 7600 7651 7636 7626
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	T	7607 7600 7613 7574 7600 7651 7636
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7607 7600 7613 7574 7600 7651 7636 7626 7653
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	T	7607 7600 7613 7574 7600 7651 7636 7626
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7607 7600 7613 7574 7600 7651 7636 7626 7653
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7607 7600 7613 7574 7600 7651 7636 7626 7626 7653 7594 7645 7667
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673 7634
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7660 7673 7634
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		7607 7600 7613 7574 7600 7651 7626 7626 7653 7594 7645 7660 7673 7634 7660 7711
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		7607 7600 7613 7574 7600 7651 7626 7626 7653 7594 7645 7660 7673 7634 7660 7670 7671 7696
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		7607 7600 7613 7574 7600 7651 7626 7626 7653 7594 7645 7660 7673 7634 7660 7711
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7686
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7673 7660 7711 7696 7686 7713
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7686
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7667 7673 7660 7711 7696 7686 7713
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7607 7600 7613 7574 7600 7651 7626 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7773 7634 7660 7711 7696 7713 7654
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7773 7634 7660 7711 7696 7713 7654
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1		7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7667 7673 7660 7711 7696 7713 7654 7703 7725 7718
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6		7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7660 7671 7696 7711 7696 7713 7654 7703
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1	TT-A-TT-A-TT-A-TT-A-TT-A-TT-A-TT-A-TT-	7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7667 7667 7673 7686 7711 7696 7713 7654 7703 7725 7711 7692
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	TT-A-TT-A-TT-A-TT-A-TT-A-TT-A-TT-A-TT-	7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7667 7667 7673 7686 7711 7696 7713 7654 7703 7725 7711 7692
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR020.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2		7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654 7703 7718
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	TT - A - T - A - T - A - T - A - T - A - T - A - T - A - A	7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7667 7660 7773 7686 7713 7654 7703 7718 7731 7692 7718
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654 7703 7718
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	TT - A - T - A - T - A - T - A - T - A - T - A - T - A - T - A - A	7607 7600 7613 7574 7600 7651 7636 7626 7626 7653 7645 7660 7673 76640 7711 7696 7711 7696 7711 7754
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG003.2 90CF056.1 92NG003.2 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TT-T-A-T-A-T-A-G	7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7754 7774
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	TT-A-TT-A-TT-A-TT-A-TT-A-TT-A-TT-A-TT-	7607 7600 7613 7574 7600 7651 7636 7653 7594 7645 7660 7711 7696 7713 7654 7703 7718 7718 7771 7754 7774 7774
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG003.2 90CF056.1 92NG003.2 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TT-T-A-T-A-T-A-G	7607 7600 7613 7574 7600 7651 7636 7626 7653 7594 7645 7660 7673 7634 7660 7711 7696 7713 7654 7703 7725 7718 7771 7754 7744

Fig. 13-22

93BR020.1			GTGGAGAGCAAGGCAAAGACAGATC	7762
92NG083.2			CAG	7784
90CF056.1	G	CA	CAG	7777
92RW009.6	GT	GA	AGG	7790
92NG003.1			AG	7751
93BR029.4				7777
94CY032.3			CAG-AG	7831
			AG	7813
96ZM651.8				
96ZM751.3			AG	7803
94CY017.41			G	7830
94IN476.104		-AGA	AA	7771
	TAT 2 nd exon end ←			
93BR020.1	CGTGAGATTAGTGAC	CGGATTCTTAGCTCTTGCCT	rgggacgacctgcggaacctgtgcct	7822
92NG083.2	-ACTC			7844
90CF056.1			CA	7837
92RW009.6			AG	7850
92NG003.1				7811
93BR029.4			AA	7837
94CY032.3				7891
96ZM651.8			AG	7873
96ZM751.3			CG	7863
94CY017.41			AG	7890
94IN476.104	-A-TCA	A	TAG	7831
	•			
93BR020.1	CTTCAGCTACCGCCA	CTTGAGAGACTTCATATTA	ATTGCAGCGAGGATTGTGGACA	7878
92NG083.2			ACGACTT-T	7904
90CF056.1			TTCACTT-T	7897
92RW009.6			CGACTT-T	7910
92NG003.1			CA-CAACTC-T	7871
93BR029.4				7893
94CY032.3		AAC-C	TCACTT-T	7951
96ZM651.8			G-GAAGCGGCTT-T	7933
96ZM751.3			GGAC-AC	7917
94CY017.41			ACTT-T	7950
94IN476.104	T-GAG	AG(GAGCGACTT-T	7891
93BR020.1	GGGG	G.CTGAAGAGGGGG	rgggaagctctcaaatatctggggaa	7921
93BR020.1 92NG083.2	ACGCAGCAGCCT	CAAGG-AGACT	GCGCTT	7921 7964
	ACGCAGCAGCCT	CAAGG-AGACT	GCGCTT	
92NG083.2 90CF056.1	ACGCAGCAGCCT	CAAGG-AGACT		7964 7936
92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCT ACGCAGCAGTCT	CAAGG-AGACT GA	AA-C <u>F</u> GAA	7964 7936 7970
92NG083.2 90CF056.1 92RW009.6 92NG003.1	ACGCAGCAGCCT ACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG-AGACT GA CAGGG-AAC CCAGG-AGACT		7964 7936 7970 7931
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG-AGACT GA		7964 7936 7970 7931 7936
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG-AGACT GA		7964 7936 7970 7931 7936 7990
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG-AGACT		7964 7936 7970 7931 7936 7990 7993
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG-AGACT		7964 7936 7970 7931 7936 7990
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCT	CAAGG-AGACT	GCGCTT	7964 7936 7970 7931 7936 7990 7993
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCT	CAAGG-AGACT	GCGCTT	7964 7936 7970 7931 7936 7990 7993
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCT	CAAGG-AGACT	GCGCTT	7964 7936 7970 7931 7936 7990 7993 7950 8010
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG-AGACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7930 7990 7993 7950 8010 7951 7981 8024
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7951 7951 7981 8024 7996
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTA-ACGCAGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTA-ACGCAGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTA-ACGCAGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTA-ACGCAGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7993 7951 7981 8024 7996 8030 7991 8050
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.1 93BR029.4 94CY032.3 96ZM651.8	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CTCTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8050 8053
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTGCTGTTG-G-TTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8053 8053
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8053 8053 8070
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8053 8053
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCTC-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 8024 7996 8030 7991 7996 8050 8053 8010 8070 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.3 94CY017.41 94IN476.104 93BR020.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT -A-ACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACACAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CT-CTG-TTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 8030 7991 7996 8053 8010 8070 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT -A-ACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACACAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CT-CTG-TTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 8024 7996 8030 7991 7996 8050 8053 8010 8070 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.3 94CY017.41 94IN476.104 93BR020.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CTCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 8030 7991 7996 8053 8010 8070 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 94UY017.41 94IN476.104	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCTC-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7990 7993 7950 8010 7951 7981 8024 7996 8030 7991 7996 8053 8053 8070 8071 8041 8044 8056
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCTC-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7990 8010 7951 7981 8024 7996 8030 7991 7996 8050 8053 8010 8070 8011
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG033.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCT -A-ACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CTCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 8091 7996 8053 8010 8070 8011 8041 8084 8056 8090 8051
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTACGCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CT-CTG-TTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8053 8010 8070 8011 8041 8084 8056 8050 8051 8056
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTACGCAGCAGTCTACGCAGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CT-CTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 7951 7981 8024 7996 8050 8053 8010 8070 8011 8041 8084 8056 8090 8051 8051 8051
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	ACGCAGCAGCCTACGCAGCAGTCTACGCAGCAGTCT	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 8010 7951 7981 8024 7996 8030 7991 8050 8053 8010 8071 8041 8084 8056 8090 8051 8051 8051 8051 8051 8051
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG003.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 94CY032.3 96ZM651.8 96ZM751.3	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTA-CCCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACGCAGCAGTCTACGCAGCAGTCT TCTCACACAGTATTG CCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 7950 8010 8011 8041 8084 8090 8051 8056 8110 8113 8070
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	ACGCAGCAGCCTACGCAGCAGTCT -A-ACGCAGCAGTCTACACCAGCAGTCTACACTGCAGTCTACACTGCAGTCTACACAGCAGTCT TCTCACACAGTATTG CCTGTTTGTG CTCTGTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	CAAGG - A GACT	GC G - CT - T	7964 7936 7970 7931 7936 7990 7993 79950 8010 8024 7996 8030 7991 8050 8053 8010 8071 8041 8084 8056 8090 8051 8051 8051 8051 8051 8051

Fig. 13-23

	ENV end	
93BR020.1	AGCTATTCTCAACATACCTAGAAGAATAAGACAGGGCTTGGAAAGGGCTTTGCTATAAA.	8100
92NG083.2	AGCIAIICICAACAIACCIAGAAGAAIAAGACAGGCIIGGAAAGGCIIIGCI	8143
90CF056.1		8116
92RW009.6	CTATA	8149
92NG003.1	AA	8110
93BR029.4	GTG	8115
94CY032.3	TGTT	8169
96ZM651.8	C-GG	8172
96ZM751.3	C-GGAG.	8129
94CY017.41	AAAA	8189
94IN476.104	C-G	8130
	NEF start	01.60
93BR020.1	ATGGGTGGCAAGTGGTCAAAAAGTAGTATAGTTGGATGGCCTGCTATAAGGGAAAGAATG	8160
92NG083.2	G	8203 8176
90CF056.1	AACAC-A	8209
92RW009.6	AA	8170
92NG003.1		8175
93BR029.4	AAG	8229
94CY032.3 96ZM651.8	GA	8232
96ZM751.3	AAAAGA	8189
94CY017.41	GTGCCCAT	8249
94 IN 476 . 104	GAAT	8190
93BR020.1	AGGCGAACCCCTCCAACCC	8193
92NG083.2	A-ATGT-GA	8227
90CF056.1	G-TGAAGTA	8200
92RW009.6	ATGAGGA	8233
92NG003.1	A-A	8191
93BR029.4	A-AA	8199 8289
94CY032.3	CA	
96ZM651.8	AATGAGGA	8256 8213
96ZM751.3 94CY017.41	GCAATGAGAGAACAGAAGCAGTGTCCCA	8303
94CY017.41 94IN476.104	ATGAGGA	8214
341N470.104	AIGAGGA	0221
93BR020.1	GGGGTGGGAGCAGTGTCTCAAGACTTAGAAAGACGGGGGGCAATTACAAGCAGCAATACT	8253
92NG083.2	AAAA	8287
90CF056.1	ATT-ATA	8260
92RW009.6	AAC	8293
92NG003.1	AA	8251
93BR029.4		8259
94CY032.3	AA	8349
96ZM651.8	AAC	8316
96ZM751.3	AATCA	8273 8363
94CY017.41	AA	8274
941N476.104	AA	02/4
93BR020.1	AGAGCTAATAATCCTGACTTGGCCTGGCTGGAAGCACAAGAGGAAGACGAAGTAGGC	8310
92NG083.2	GC-A-CCT-GTGGACTCAT	8347
90CF056.1	GC-TCGTGCC	8320
92RW009.6	CCCAGCCGT-GTC	8353
92NG003.1	GC-CAA-CT-GTACGAATTCAG	8311
93BR029.4	GG	8316
94CY032.3	GCAGGAAAGT	8409
96ZM651.8	TA-C-CGCT-GTT	8373
96ZM751.3	TA-CGGAG-GA	8333
94CY017.41	GCCT-GCGAGGAGAGT	8423
941N476.104	CC-AGCGGAAA	8334
93BR020.1	TTTCCAGTCAGACCTCAGGTACCTTTAAGACCAATGACCTATAAGGGAGCTGTAGATCTC	8370
92NG083.2	GAGTCTT-T	8407
90CF056.1	T-T	8380
92RW009.6	TA-CA-T	8413
92NG003.1		8371
93BR029.4	TC-T	8376
94CY032.3	TTT	8469
96ZM651.8	TCAC	8433
96ZM751.3	TCAT-T	8393
94CY017.41	CGA	8483
94IN476.104		8394

Fig. 13-24

		0430
93BR020.1	AGTCACTTTTTAAAAGAAAAGGGGGGACTGGAAGGGTTAATTTACTCCAAGAGAAGACAA	8430
92NG083.2	CTTTCT	8467
90CF056.1	CT	8440
92RW009.6	CTTAG	8473
92NG003.1	CTTTAA	8431
93BR029.4	TAAA	8436
94CY032.3	CAA	8529
96ZM651.8	CTTAG	8493
	CTTGTA	8453
96ZM751.3	CTTCA	8543
94CY017.41	GCCTTTAGT	8454
94IN476.104	GCCTT	0454
		8490
93BR020.1	GAGATCCTTGATCTGTGGGTCTACCACACACACAGGCTACTTCCCTGATTGGCAGAACTAC	
92NG083.2	CA	8527
90CF056.1	C	8500
92RW009.6	CA	8533
92NG003.1	CAA	8491
93BR029.4	T	8496
94CY032.3	TG-TG-TG-T	8589
	A	8553
96ZM651.8	AT	8513
96ZM751.3	-A	8603
94CY017.41	CT	8514
94IN476.104	AAAA	0314
		0550
93BR020.1	ACACCAGGGCCAGGGATCAGATATCCACTGACCATGGGGTGGTGCTTCAAGCTAGTACCA	8550
92NG083.2	AA	8587
90CF056.1		8560
92RW009.6		8593
	TAAA	8551
92NG003.1	T-A	8556
93BR029.4		8649
94CY032.3	AGAGTCTG-T-TA	8613
96ZM651.8	GAGT-TA	
96ZM751.3	GAAG	8573
94CY017.41	A	8663
94IN476.104	AAA	8574
312111.01201	-	
0200000	CTTGACCCAGAGGAGGTAGAAAAGGCCCAATGAAGGAGGAGAACAACTGCTTGCT	8610
93BR020.1	GTTGACCCAGAGGAGGTAGAAAAGGCCAATGAAGGAGAACAACTGCTTGCT	8610 8647
92NG083.2	A-G	8647
92NG083.2 90CF056.1	A-G	8647 8620
92NG083.2	A-G	8647 8620 8653
92NG083.2 90CF056.1	A-GAGAA-GT-A-TC-AT	8647 8620 8653 8611
92NG083.2 90CF056.1 92RW009.6	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616 8709
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A-GCAAGG-AA-GT-A-TC-ATAA-TCAT	8647 8620 8653 8611 8616 8709 8673 8633
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616 8709 8673 8633 8723
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	A-GCAAGG-AA-GT-A-TC-ATAA-TCAT	8647 8620 8653 8611 8616 8709 8673 8633
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A-GCAAGG-AA-GT-A-TC-ATAA-TCC	8647 8620 8653 8611 8616 8709 8673 8633 8634
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	A-GCAAGG-AA-GT-A-TC-ATAA-TCCCA	8647 8620 8653 8611 8616 8709 8673 8633 8634
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8679
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8679 8712
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	A-GCAAGG-AA-GT-A-TC-AT	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8679 8712 8670
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8679 8712
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8679 8712 8670
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8723 8634 8669 8706 8679 8670 8675
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8712 8679 8712 8675 8768 8732
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8709 8712 8675 875 8732 8692
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8723 8634 8669 8712 8675 8758 8758 8758 8758 8758 8758
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8709 8712 8675 875 8732 8692
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A-G	8647 8620 8653 8616 8709 8673 8633 8633 8634 8669 8712 8679 8712 8675 8768 8732 8692 8782 8693
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	A-G	8647 8620 8653 8611 8616 8709 8633 8633 8634 8669 8709 8712 8675 8768 8779 8758 8782 8693 8782
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8675 8712 8670 8675 8732 8792 8792 8792 8793
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY012.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8675 8712 8675 8768 8782 8692 8782 8693
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8675 8712 8675 8772 8675 8782 8693 8792 8792 8793
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8675 8712 8675 8768 8782 8692 8782 8693
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A-G	8647 8620 8653 8616 8709 8673 8633 8633 8634 8669 8712 8679 8712 8675 8768 8782 8692 8782 8693 8766 8772
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 92RW009.6 92NG003.1 92RW009.6	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8675 8762 8772 8675 8782 8792 8792 8792 8793 8736 8736 8736 8736 8736 8736 8736 873
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8706 8675 8768 8772 8782 8792 8792 8793 8793 8793 8793 8793 8793 8793 8793
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	A-G	8647 8620 8653 8611 8616 8709 8673 8633 8634 8669 8712 8679 8712 8675 8782 8782 8782 8792 8735 8736 8736 8736 8736 8736 8736 8736 8736
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR020.1 92NG083.2 90CF056.1 92NG003.2 90CF056.1 92NG003.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8	A-G	8647 8620 86531 8616 8709 8673 8633 8633 8634 8669 8712 8675 8768 8772 8675 8768 8732 8736 8735 8735 8735 8735 8735 8735 8735 8735
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 94CY017.41 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	A-G	8647 8620 8653 8611 8709 8673 8633 8633 8634 8679 8712 8679 8712 8675 8782 8782 8792 8792 8730 8735 8736 8736 8736 8736 8736 8736 8736 8736

Fig. 13-25

NEF end	·	
93BR020.1	AGACTGCTGACACAGAGATTGCTGACACAGAAGAATCT.AAAGGGACTTTCCA.CTG	,
		8
92NG083.2		8
90CF056.1	- TG	8
92RW009.6	-	8
92NG003.1	- CA-AA-TGCGC	8
93BR029.4	-	8
94CY032.3		8
96ZM651.8		
		8
96ZM751.3	GGATTCCGCT	8
94CY017.41	- TTGG-CG	8
94IN476.104		8
93BR020.1	GGGACTTTCCAGAGGGTG.GGCCAGAGGGCGGGACTGGGGAGTGGCTCACCCTCAGAT	8
92NG083.2	A	8
90CF056.1	G-GAC-T-AT-T-GGACA	8
	GGCAT-T-T-GG-ACA	
92RW009.6		8
92NG003.1	G-GAC-CAT-GAAAA	8
93BR029.4	GAG	8
94CY032.3		8
96ZM651.8		8
96ZM751.3	GCAGA	8
94CY017.41		
		8
941N4/6.104	GTCATCA	8
93BR020.1	GCTGCATATAAGCAGCCGCTTTTCGCCTGTACTGGGTCTCTCTAGTTAGACCAGATTTGA	8
92NG083.2	TG	8
90CF056.1	T-GC	8
92RW009.6	G-GC	8
92NG003.1	T	
		8
93BR029.4		8
94CY032.3	ACC	8
96ZM651.8		8
96ZM751.3		8
94CY017.41	TGA	8
94IN476.104		8
7111170.101	1	0
93BR020.1	GCCCGGGAGCTCTCTGGCTAGCTAGGGAACCCACTGCTTAA.GCCTCAATAAAGCTTGCC	8
92NG083.2	TT-GAG	8
90CF056.1	T	8
92RW009.6	T- ['] TT	8
92NG003.1	TAGAG	8
93BR029.4	T	8
	T	
94CY032.3		9
96ZM651.8	T	8
96ZM751.3		8
94CY017.41	AGAG	9
94IN476.104	CT	8
93BR020.1	TTGAGTGC.TTT 8968	
92NG083.2	8987	
90CF056.1	8953	
92RW009.6	C- 899Ž	
92NG003.1	C 8966	
93BR029.4	T-A. 8954	
94CY032.3	T-C. 9050	
96ZM651.8	9009	
96ZM751.3	C 8972	
94CY017.41	AGC-T 9060	
94IN476.104	C- 895 ⁵ 9	
	, *	
	·	

GAG		
93BR20.1	MGARASVLSGGKLDAWEKIRLRPGGKKKYRLKHLVWASRELERFALDPGLLETSEGCRKI	60
92NG083.2	V	60
90CF056.1	NPLQ-	60
92RW009.6	I-RN-DPKQ-	60
92NG003.1	N-DTQQ-	60
93BR029.4	IEKHIVNQ-	60
94CY032.3	R	60
	I-RKQ-	60
96ZM651.8	I-RKQ-	60
96ZM751.3	I	60
94CY017.41 94IN476.104	I-RRH-MINDKQ-	60
94111476.104		
93BR20.1	IGQLQPSLQTGSEELKSLYNTIAVLYYVHQKVEVKDTKEALEKLEEEQNKGRQKTQQATA	120
92NG083.2	MKATRFV-TCIP-EV-KI-KNSQ-EIAK	119
90CF056.1	-E-IAIKTF-LVCR-IDD-IISQA-	120
92RW009.6	MRATDRV-TCIDD-ISQE-	120
92NG003.1	MREV-KI-KNSQ-EK-AM	120
93BR029.4	LEA-KRV-TCIDIXSKK-AA-	120
94CY032.3	MEST-KRTT-WCRID-QD-II-S-SKA-	120
96ZM651.8	MKATRV-TCEGRDRIIQIK	119
96ZM751.3	-OATRV-TCE-IK-RD-ISQIK	118
94CY017.41	-RATWR-DD-IH-A-	118
94IN476.104	-KH-A-KTRFV-TCAGIRD-ISQIKE	120
	TO THE TAX	176
93BR20.1	EKGVSQNYPIVQNLQGQMVHQSLSPRTLNAWVKVIEEKAFSPEVIPMFSALSEGAT	
92NG083.2	NE-NSNPAIAIVV	179
90CF056.1	D-EKDNKAAIVV	180
92RW009.6	ADKGKAIQT	178
92NG003.1	GNSSQT	180
93BR029.4	NT-NNSQAIVV	180
94CY032.3	AA-GSSNAII	180
96ZM651.8	QQAADGKT	179
96ZM751.3	. EATGGKTAIG-NT	177
94CY017.41	DT-NSSTAAIVVT	176
94IN476.104	AD-KT	177
		236
93BR20.1	PQDLNTMLNTVGGHQAAMQMLKDTINEEAAEWDRLHPTQAGPIPPGQIREPRGSDIAGTT	236
92NG083.2	IQSSS	239
92NG083.2 90CF056.1		239 240
92NG083.2 90CF056.1 92RW009.6		239 240 238
92NG083.2 90CF056.1 92RW009.6 92NG003.1	A	239 240 238 240
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		239 240 238 240 240
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		239 240 238 240 240 240
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		239 240 238 240 240 240 239
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		239 240 238 240 240 240 239 237
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		239 240 238 240 240 240 239 237 236
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		239 240 238 240 240 240 239 237
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		239 240 238 240 240 240 239 237 236 237
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	D	239 240 238 240 240 240 239 237 236
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2		239 240 238 240 240 239 237 236 237
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1		239 240 238 240 240 239 237 236 237 296 299 300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6		239 240 238 240 240 239 237 236 237 296 299 300 298
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1		239 240 238 240 240 239 237 236 237 296 299 300 298
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		239 240 238 240 240 239 237 236 237 296 299 300 298 300 300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		239 240 238 240 240 239 237 236 237 296 299 300 298 300 300 300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		239 240 238 240 240 239 237 236 237 296 299 300 298 300 300 300
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		239 240 238 240 240 239 237 236 237 296 299 300 300 300 300 309 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		239 240 238 240 240 239 237 236 237 296 299 300 300 300 299 297 296
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		239 240 238 240 240 239 237 236 237 296 299 300 300 300 300 309 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		239 240 238 240 240 239 237 236 299 300 300 300 300 299 297 296 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		239 240 238 240 240 239 237 236 299 300 298 300 300 300 299 297 296 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1		239 240 238 240 240 239 237 236 299 300 300 300 300 299 297 296 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 94IN476.104		239 240 238 240 240 239 237 236 299 300 298 300 300 300 299 297 296 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		239 240 238 240 240 239 237 236 237 296 299 300 300 300 299 297 296 297
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	D	239 240 238 240 240 237 236 237 296 299 300 300 300 299 297 296 359 359 359 358
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2	D	239 240 238 240 240 239 237 236 299 300 300 300 399 297 296 358 360
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2	D	239 240 238 240 240 239 237 236 299 300 300 300 299 297 296 297 359 360 359 360 360
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	D	239 240 238 240 240 239 237 236 299 300 300 300 309 297 296 297 296 358 360 358 360 360
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR20.1 93BR20.1 93BR20.1 93BR20.1 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR20.1 92RW009.6 92NG003.1 93BR20.1 92RW009.6 92NG003.1 93BR20.1 92RW009.6 92NG003.1 93BR20.1		239 240 238 240 240 237 236 237 296 299 300 300 299 297 297 297 359 359 360 359
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG003.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR20.1 93BR20.1 93BR20.1 93BR20.1 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR20.1 92RW009.6 92NG003.1 93BR20.1 92RW009.6 92NG003.1 93BR20.1 92RW009.6 92NG003.1 93BR20.1	D	239 240 238 240 240 237 236 237 296 299 300 300 2997 296 359 360 360 360 369 356

Fig. 14-1

93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	RVLAEAMSQATNTAIMMQKSNFKGQRRIVKCFNCGKEGHIAKNCRAPRKKGCWKCGR SGA-AAA	413 419 419 415 419 418 419 416
96ZM751.3	RRK	413
94CY017.41		414
94IN476.104		413
93BR20.1	EGHQMKDCTE.RQANFLGKIWPSNKGRPGNFIQNRPEPSAPPAESFRFGEE.TT	465
92NG083.2	EIA	471
90CF056.1		471 467
92RW009.6	N-GMIA	471
92NG003.1	V	471
93BR029.4 94CY032.3		471
94C1032.3 96ZM651.8		467
96ZM751.3	EPTAPPA-TE	470
94CY017.41	NL-MI-	466
94TN476.104	•	464
31111701101		
93BR20.1	PSPKOEOKDEGLYPPLASLKSLFGNDP1 492	
92NG083.2	P-EKETS1 497	
90CF056.1	LKDKEPRSLLQ1 500	
92RW009.6	SPLREPILSO1 494	
92NG003.1	LPREKESPT1 497	
93BR029.4	QPI-KEMRSSQ1 500	
94CY032.3	S-LPR-KETSLSQ1 500	
96ZM651.8	-ASREA-TSLSQ1 494	
96ZM751.3	-A-RKETASLSQ1 497	
94CY017.41	S-LLETREP-N-AILLQ1 496	
94IN476.104	-ASRETSLSQ1 491	

POL		
93BR020.1	FFRENLAFQQGEARKLHPEQARAVSPASRELQVRGGD.NPIS.EAG	44
92NG083.2		44
90CF056.1	RFSTNTRRRDL	44
92RW009.6	FSTG-NTWNG-RSLST-	44
92NG003.1	EFSSN-TRRRSFP	44
93BR029.4	P-K-EFPS-T-N-TW-RGN-SLT-	45
94CY032.3	VRFSSEQANRGMREERNLLS	44
96ZM651.8	PKEFPSNTRBM	43
	PEGEPSTNT-SNSPTSRECP	49
96ZM751.3 94CY017.41		44
94IN476.104	PEFPSKNTQ-DNPRS	43
2 - 2 - 1 - 1 - 1 - 1 - 1		
93BR020.1	AE.RRGTVPSLSFPQITLWQRPLVTIRVGGQLKEALLDTGADDTVLEDVNLPGKWKPKMI	103
92NG083.2	-K.GE-AINVKII	102
90CF056.1	-AEGQEIVKIEREIEI	102
92RW009.6	QFNVKIREIEI	100
92NG003.1	GK-ITINLV-IIQIQI	102
93BR029.4	-DQ-DFGRVKIEIR	103
94CY032.3	TGQIFNKLIREI	102
96ZM651.8	VQNS-KI	99
96ZM751.3	OT-NCS-KIEI	105
94CY017.41	TG.DOIO-CNVKIEEIE	103
	VQTNS-KIEIAR	99
	COTTON TO THE TOTAL TOTAL MODERNMING TO THE TOTAL MODE	1.62
93BR020.1	GGIGGFIKVKQYDSILIEICGHRAIGTVLVGPTPVNIIGRNMLTQIGCTLHFPISPIETV	163
92NG083.2	RQG-KKINN	162
90CF056.1	REQVAKKINN	162
92RW009.6	SNNN	160
92NG003.1	INN	162
93BR029.4	LN	163
94CY032.3	RQ-PKKLLN	162
96ZM651.8	E-RQ-PMKK	159
96ZM751.3	RQKKLLN	165
94CY017.41	V-LNK	163
94IN476.104	DLN	159
0255000 1	DAMA ADOMOGRAMANON DE REPLANT RELAMBNE PART ON TO DENDAMBLE A LAVADO	222
93BR020.1	PVKLKPGMDGPKVKQWPLTEEKIKALTEICMEMEKEGKISKIGPENPYNTPVFAIKKKDS	223
92NG083.2	R	222
90CF056.1	RS-I	
		222
92RW009.6	ART	220
92NG003.1	IIII	220 222
92NG003.1 93BR029.4	IIII	220 222 223
92NG003.1 93BR029.4 94CY032.3	IIII	220 222 223 222
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	IIII	220 222 223 222 219
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	I	220 222 223 222 219 225
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	I	220 222 223 222 219 225 223
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	I	220 222 223 222 219 225
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	I	220 222 223 222 219 225 223 219
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TD	220 222 223 222 219 225 223 219
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	TD	220 222 223 222 219 225 223 219 283 282
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	TD	220 222 223 222 219 225 223 219 283 282 282
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	TD	220 222 223 222 219 225 223 219 283 282 282 280
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TD	220 222 223 222 219 225 223 219 283 282 282 280 282
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	TD	220 222 223 222 219 225 223 219 283 282 282 282 280 282 283
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TD	220 222 223 222 219 225 223 219 283 282 282 280 282 283 282
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR023.1 93BR023.1 93BR023.1	TD	220 222 223 222 219 225 223 219 282 282 282 282 282 282 283 282 279
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TD	220 222 223 222 219 225 223 219 282 282 282 282 282 282 283 282 283 282 283 285
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TD	220 222 223 222 219 225 223 219 283 282 282 282 283 282 279 285 283
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TD	220 222 223 222 219 225 223 219 283 282 282 280 282 283 282 279 285
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TD	220 222 223 229 225 223 219 283 282 282 280 282 283 282 279 285 287 287
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1	TD	220 222 223 222 219 225 223 219 283 282 282 282 282 283 279 285 283 279 285 287 287
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2	TD	220 222 223 222 219 225 223 219 283 282 282 282 283 282 279 285 283 279
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1	TD	220 222 223 2219 225 223 219 283 282 282 280 282 283 282 279 285 283 279
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92RW009.6	TD	220 222 223 2219 225 223 219 283 282 282 282 289 282 279 283 279 285 283 279
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG003.1	TD	220 222 223 2219 225 223 219 283 282 282 282 282 283 279 285 283 279 285 283 279 285 283 279
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR022.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 92RW009.6	TD	220 222 223 222 219 225 223 219 283 282 280 282 283 282 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 282 283 283 282 283 283 283 283 283
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR022.4 94CY032.3	TD	220 222 223 2219 225 223 219 283 282 282 283 282 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 279 285 283 282 283 282 283 282 283 282 283 282 283 282 283 282 283 282 283 282 283 283
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	TD TT TO TT	220 222 223 2219 225 223 219 283 282 282 282 283 282 279 285 283 279 342 342 340 342 342 343
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1	TD	220 222 223 222 219 225 223 219 283 282 282 280 282 279 283 279 343 342 340 342 343 342 349 345
92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG083.2	TD	220 222 223 222 225 227 225 223 219 283 282 282 282 283 282 279 285 283 279 342 342 340 342 342 349

Fig. 15-1

		400
93BR020.1	VGSDLEIGQHRTKIEELREHLLKWGLTTPDKKHQKEPPFLWMGYELHPDKWTVQPIQLPD	403
92NG083.2	E	402
90CF056.1		402
92RW009.6	E	400
92NG003.1	N	402
93BR029.4	VE	403
94CY032.3	APAE	402
96ZM651.8	AAA	399
96ZM751.3	AARFKE	405
94CY017.41	SV	403
94IN476.104	KE	399
941N4/0.1U4	i A	
0200020 1	KDSWTVNDIQKLVGKLNWASQIYPGIKVKQLCKLLRGAKALTDIVPLTTEAELELAENRE	463
93BR020.1	-EDAM	462
92NG083.2	NIK	462
90CF056.1	TE	460
92RW009.6	-EEE	462
92NG003.1	-E	463
93BR029.4	ARARARAA	462
94CY032.3	n v	459
96ZM651.8		464
96ZM751.3	-E	
94CY017.41	TKE	463
94IN476.104	EE	459
93BR020.1	ILKEPVHGAYYDPSKDLIAEIQKQGQGQWTYQIYQEPFKNLKTGKYAKMRSAHTNDVKQL	523
92NG083.2	Y-HEVPDYRG	522
90CF056.1	RIVTRR	522
92RW009.6	V	520
92NG003.1	YRG	522
	YRG	523
93BR029.4	HRTR	522
94CY032.3	VT	519
96ZM651.8	The state of the s	524
96ZM751.3	V	523
94CY017.41	TV	519
94IN476.104	T	319
	*	E 0.3
93BR020.1	TEAVQKISLESIVIWGKT.PKFRLPILKETWDTWWTEYWQATWIPEWEFVNTPPLVKLWY	582
93BR020.1 92NG083.2	VAT-GIKREVAA	581
	VAT-GIKREVAH	581 581
92NG083.2	VAT-GIKREVA	581 581 579
92NG083.2 90CF056.1	VAT-GIKREVA	581 581 579 581
92NG083.2 90CF056.1 92RW009.6 92NG003.1	VAT-GIKREVA	581 581 579
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	VAT-GIKREVA	581 581 579 581
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	VAT-GIKREVA	581 581 579 581 582
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	VAT-GIKREVA	581 581 579 581 582 581
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	VAT-GIKREVA	581 579 581 582 581 578
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	VAT-GIKREVA	581 581 579 581 582 581 578 583 582
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	VAT-GIKREVA	581 579 581 582 581 578 583
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	VAT-GIKREVA	581 579 581 582 581 578 583 583 577
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	VAT-GIKREVA	581 579 581 582 581 578 583 583 587 642
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2	VAT-GIKREVA	581 581 579 581 582 578 583 582 577 642 641
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	VAT-GIKREVA	581 589 581 582 578 583 582 577 642 641
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	VAT-GIKREVA	581 581 579 581 582 581 578 583 587 642 641 639
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1	VAT-GIKREVA	581 581 579 581 582 578 583 582 577 642 641 639 641
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6	VAT-GIKREVA	581 581 579 581 582 578 583 582 577 641 641 641 642
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1	VAT-GIKREVA	581 581 579 581 582 578 583 582 577 641 641 641
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4	VAT-GIKREVA	581 579 581 578 582 578 583 577 641 639 641 642 643
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	VAT-GIKREVA	581 579 581 578 582 578 583 587 641 641 642 641 643 643
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	-VAT-GIKREVAHTIQED	581 579 581 578 582 578 583 582 57 641 643 641 643 643 643
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	-VAT-GIKREVAHTIQED	581 579 581 578 582 578 583 587 641 641 642 641 643 643
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8	VAT-GIKREVA	581 581 579 581 578 582 577 641 641 642 641 643 643
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	VAT-GIKREVA	581 581 579 581 578 582 577 641 641 642 641 643 643
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.3 94CY017.41 94IN476.104 93BR020.1	VAT-GIKREVA	581 581 579 5882 5881 578 5882 577 6441 6439 6441 6438 6437
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1	VAT-GIKREVA	581 581 579 581 582 578 583 587 641 641 642 643 643 643 702
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY017.41 94IN476.104	VAT-GIKREVA	581 589 581 578 582 578 641 641 643 641 643 642 641 670 701
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG0083.2 90CF056.1 92RW009.6	VAT-GIKREVA	581 581 579 581 578 582 577 641 642 641 642 638 643 643 702 701 699
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	VAT-GIKREVAH	581 581 579 581 578 582 578 583 557 641 641 642 643 643 643 701 7019 701
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1	VAT-GIKREVAH	581 581 579 581 578 582 578 583 587 642 641 643 642 643 642 643 701 701 701 702
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-VAT-GIKREVAH	581 581 579 581 582 578 583 587 641 641 642 641 642 641 670 701 701 701 701 701
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.4 94CY017.41 94IN476.104 93BR020.1 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.1 92NG083.2	-VAT-GIKREVAH	581 581 579 582 581 578 583 577 642 641 643 642 637 702 701 702 701 702 701 698
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2	-VAT-GIKREVA	581 581 581 582 5882 5883 587 641 641 6438 6442 637 701 701 7019 7018 703
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	-VAT-GIKREVAH	581 581 579 582 581 578 583 577 642 641 643 642 637 702 701 702 701 702 701 698

Fig. 15-2

93BR020.1	VDKLVSAGIRKVLFLDGIDKAQEEHEKYHNNWRAMASDFNIPAVVAKEIVASCDKCQLKG	762 -
92NG083.2	S	761
90CF056.1	S-VRVL-PI	761
92RW009.6	SR	759
92NG003.1	SDRSL-PI	761
93BR029.4	SP	762
94CY032.3	L-S	761
96ZM651.8	E-L-PQ	758
96ZM751.3	SSSEL-P1	763
94CY017.41	S	762
94IN476.104	RSDSNEL-PI	757
311111701201		
93BR020.1	EAMHGQVDCSPGIWQLDCTHLEGKIILVAVHVASGYLEAEVIPAETGQETAYFLLKLAGR	822
92NG083.2	IIII	821
90CF056.1	IKS-	821
92RW009.6	A	819
92NG003.1	I	821
93BR029.4	GI	822
94CY032.3	I	821
96ZM651.8	TYI	818
96ZM751.3	TTLVITTL-1	823
94CY017.41		822
	YI	817
94IN476.104		
0200020 1	WPVKTIHTDNGTNFTSATVKAACWWAGIQQEFGIPYNPQSQGVVESMNKELKKIIGQIRD	882
93BR020.1	VP-I-AN-TVG-	881
92NG083.2	VSADV	881
90CF056.1	VSNV	879
92RW009.6	VSAMV	881
92NG003.1	STKIV	882
93BR029.4	MAPAD-NV	881
94CY032.3	VSAKKV	878
96ZM651.8	VSAH	883
96ZM751.3	VP-I	882
94CY017.41	VSAV-E	877
94IN476.104	VSA	•
	OR THE MEN HOME HER LINE LEVEL COVER CERTIFIC TATELOTERS. OKOTIK TONER VYY	942
93BR020.1	QAEHLKTAVQMAVFIHNFKRKGGIGGYSAGERTIDIIATDIQTRELQKQIIKIQNFRVYY	942 941
92NG083.2	SK	941
92NG083.2 90CF056.1	KKKKSNK	941 941
92NG083.2 90CF056.1 92RW009.6		941 941 939
92NG083.2 90CF056.1 92RW009.6 92NG003.1	I	941 941 939 941
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ISKSNK RIIIKT	941 941 939 941 942
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		941 941 939 941 942 941
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		941 941 939 941 942 941 938
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		941 941 939 941 942 941 938 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	R	941 941 939 941 942 941 938 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3		941 949 941 942 941 938 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		941 941 939 941 942 941 938 943 943
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		941 941 939 941 942 941 938 943 943 937
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		941 941 939 941 942 941 938 943 943 937
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1		941 941 939 941 942 943 943 943 940 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2		941 941 939 941 942 941 938 943 942 937 1002 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		941 941 939 941 942 943 943 947 1002 1001 1001 999
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		941 941 939 941 942 943 943 942 937 1002 1001 1001 9001 1002
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1		941 941 939 941 942 943 943 943 940 1001 1001 1001 1002 1001
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		941 941 939 941 938 943 943 9001 1001 999 1001 1002 1001 998
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3		941 941 939 941 938 943 943 943 9001 1001 1001 1002 1001 1002
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG09.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		941 941 939 941 938 943 943 943 9001 1001 1001 1002 1001 999 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR020.1 93BR020.3 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1 93BR020.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY017.41 94IN476.104 93BR020.1 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92RW009.6 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 93BR020.1 92NG083.2 90CF056.1 92NG083.2		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 93BR029.4 94CY032.3 94CY017.41 93BR029.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1		941 941 939 941 938 943 942 937 1002 1001 1002 1001 998 1003 1003

Fig. 15-3

VIF		
93BR020.1	MENRWQVMIVWQVDRMRINTWKSLVKYH	MHISKKAKGWFYRHHFESRHPKISSEVHIPI YVRVRV
92NG083.2	VH-	RRTR
90CF056.1		VA DD
92RW009.6	H-	-YA-RRY
92NG003.1	RN	-YKDYV
93BR029.4	V	VRRV
94CY032.3	-AH-	
96ZM651.8	ALRNH-	- Y R N Y RV
96ZM751.3	LK-RNH-	-YVRTGRY
94CY017.41	RNH-	- Y R V - K Y N - R
94IN476.104	RNH-	YV-RR-SV-A
93BR020.1	TAELVITTYWGLLPGEREWHLGQGVSIF	EWRQGRYRTQIDPGLADQLIHIYYFDCFSES#
92NG083.2	D-TVRHAKD-QH	KSNTHL
90CF056.1	E-R	LKSVEMH
92RW009.6	E-RKQTDH	LRKVGMHAD
92NG003.1	E-RVRHTD	K-RSDLHN
93BR029.4	E-KHTD	
94CY032.3	E-RVROODH	LRSVDMH
96ZM651.8	D-KKOTDH	LRSVMHAD-
96ZM751.3	D-KKHH	LRSV
94CY017 41	E-RIIVRHIKDH	NHDHL
94IN476.104	D-RKQTDH	LSVEMHAD-
93BR020.1	RKATLGHKTSPRCNYOAGHNKVGSLOYI	LALTALIAPKKTKPPLPSVQKLVEDRWNKPQ
92NG083.2	ETVE-P	SKVT-TRKRGA
90CF056.1		VIR
92RW009.6	TVD	KISK
92NG003.1		KVT-TQKTE
93BR029.4	P	KRKT
94CY032.3		ASK
96ZM651.8	TVID	KRRNS-
96ZM751.3	I - TVI D	RR
	T ETV E	K-VV-STRR
94CY017.41 94IN476.104	TVIC D	KRKN
941N476.104	1V13D	
93BR020.1	RGHRESHTMNGH1 192	
92NG083.2	-DNP1 192	
90CF056.1	G1 192	
92RW009.6	R-GN1 192	
92NG003.1	GST1 192	
93BR029.4	KDG1 192	
94CY032.3	RNQI1 191	
96ZM651.8	K-R-GNVS1 192	
96ZM751.3	K-R-GN-I1 192	
94CY017.41	KGC1 192	
94 IN 476 . 104	-DGN1 192	

VPR

93BR020.1	MEQAPEDQGPQREPYNEWTLDLLEELKNEAVRHFPRPWLI	HSLGQHIYNTYGDTWEGVEAI
92NG083.2	EE	-GY
90CF056.1		-QL
92RW009.6	EAQ	-DYER
92NG003.1	RFEHX	-GV
93BR029.4	SL	EA
94CY032.3	EE	-G
96ZM651.8	FSEIO	ET
96ZM751.3	NT	-NL
94CY017.41	H	-GYV-
94IN476.104	SEQ	YEA-TL
93BR020.1	IRILQQLLFIHFRIGCRHSRIGITRQRRVRNGTSRS1	96
92NG083.2	D-PG-P1	96
90CF056.1	TP1	96
92RW009.6	A1	96
92NG003.1	IPGGAG1	92
93BR029.4	AA1	96
94CY032.3	PRGR-W-Q.1	95
96ZM651.8	AA1	96
96ZM751.3	AA1	96
94CY017.41	YVŌI-RD-AP1	96
94IN476.104	T	95

TAT

60 60 60
60 60 60 60 60
60
60
60

REV	
93BR020.1 MAGRSGDSDQELLKAVRYIKILYQSNPYPKP.EGTRQARRNRRRRWRARQRQIREISDRI 92NG083.2	59 59 59 59 59 59 59 59
93BR020.1 LSSCLGRPAEPVPLQLPPLERLHINCSEDCGQGAEEGVGSSQISGESHTVLGS 92NG083.2AFG-SLDK-G-TSGTQQPQGTETRP-VLV-PPV 90CF056.1 -TPTTLTSG-KEPLS-IT 92RW009.6 -TTIT-DG-TSGTQQSQGTTENP 92NG003.1 -T	112 119 112 107 119 112 113 107 96 119
93BR020.1 GTKE1 116 92NG083.21 123 90CF056.11 116 92RW009.61 107 92NG003.11 123 93BR029.41 116 94CF032.3 -A1 117 96ZM651.81 107 96ZM751.31 96 94CY017.41E-1 123 94IN4761 107	

VPU

93BR020.1	MSNLLAIGIAALIVALIITIVVWT	.IAYIEYKKLVRQRKINRLYKRISERAEDSG	54
92NG083.2	-QAEISXF-AATIS	VFR-IRK-KEK-LDR	51
90CF056.1	-ŶIG.LGV-TFAVI	VKDIEG	53
92RW009.6	-TSEIYA-VV	.L-GLKDI-K-R	54
92NG003.1	-QSEIAAGVA-AA	X-IKK-EDLDR	49
93BR029.4	YVLAA	RER	54
94CY032.3	-LFWEIWA-VGVV	.LVFRR-DSNR	54
96ZM651.8	-LD-LARVNYRVGVGAL-A	RLDW-IR	5 9
96ZM751.3	-LEARVDYRIGVGAAA-AI	VRSDIR	5.5
94CY017.41	-LPVILA-VGLA	VFIKKDW-I	54
94IN476.104	-VLERVDYRLGVGALAIVW	TLRLIERV	5 9
93BR020.1	NESEGDAEELAALGEVGPFIPGDINNL1	81	
92NG083.2	T-M-M-D-D-WVG1	78	
90CF056.1	DTSK-M-M-HLNL-YVAD-1	80	
92RW009.6	DIDSK-VGNYDLV1	81	
92NG003.1	TT-VDMVD-D-WVGD1	76	
93BR029.4	D1	81	
94CY032.3	DST-VGM-N-D-WVGD1	81	
96ZM651.8	TTMVDM-HLRLL-V-D-1	86	
96ZM751.3	NTMVDM-HLRLL-AIDV1	86	
94CY017.41	DTSV-R-HLDFVV1	81	
94TN476 104	TST-VDM-NLRLL-A-D-1	86	

ENV		
93BR20.1	MRVRGMQRNWQHLGKWGLLFLGTLIICNAAENLWVTVYYGVPVWKEATTTLFCASDAKSY	60
92NG083.2	K-IED-D-P	60
90CF056.1	METYPS-WRT-IM-LSQKKA-	57
92RW009.6	M-TLM-Y-N-WGTMIM-TSND-EA-	60
92NG003.1	K-TWT-WT-ILVS-SNED-D-PA-	60
93BR029.4	A-	59
94CY032.3	M	60
96ZM651.8	EIIRWWTI-GFWM-MVWGKK	60
96ZM751.3	K-TMCWWII-GFWM-LMMGKKK	60
94CY017.41	M-TYWRG-I-IMM-K-TDD-D-IA-	59
94IN476.104	ILCWWII-GFWM-M-Y-VVGKA-	60
020020 1	EKEAHNVWATHACVPTDPNPQEVVLENVTERFNMWENNMVEQMHTDIISLWDQSLKPCVK	120
93BR20.1 92NG083.2	SS-KEE	120
90CF056.1	-T-K	117
92RW009.6	DP-KIDIHEK	120
92NG003.1	ST-REE	120
93BR029.4	51-K	119
94CY032.3	VI	120
96ZM651.8	VIGNK-DE	120
	-T-V	120
96ZM751.3	DT-VINNKQE	119
94CY017.41	VIMD-VNK-DDE-V	120
94IN476.104		120
93BR20.1	LTPLCVTLDCRNIATNGTNDTIAIND.TLKEDPEAIQNCSFNTTTEIRD	168
92NG083.2	IN-TVNSANHTEANN-VENKEKKIRGG	164
90CF056.1	N-TVR-N-SNSTS.SMEAG.GELTVVL	160
92RW009.6	E-NNITNVNNTVNITDDMKGEKML	163
92NG003.1	N-TNVNCNSNV-STG-SAGTNATCNIE-A.NNLKI	173
93BR029.4	R-SNAT-NSTQNDE-GMV	162
94CY032.3	SFT-INAT-TNSTNG-VIKEGKDI	161
96ZM651.8	N-TEVNVTR-VN-SVVNNTTNVNNSMNGDMKILK-	171
96ZM751.3	N-TANITNANIT-NANITNYNNETDMRIL	168
94CY017.41	I-N-SNANT	164
94IN476.104	N-SKVTNATYNNTDDKA	158
311111101101		
93BR20.1	KQLKVHALFYKLDIVQINKDDNRTYRLINCDASTITQACPKVSWD	213
92NG083.2	-KKEEYV-PSNGNKTSH-NVKNF-	209
90CF056.1	QRV-PDNNSTQYNT-VFE	204
92RW009.6	- KQR-YSRFE	212
92NG003.1	-KKTEYRV-PDGNN-VS.NNNVKF-	220
93BR029.4	RPSN-NSSN.DNSSREYNTL	213
94CY032.3	-KK-EYRIP-NARVPINGSNRNNSTEEYMNKFE	216
96ZM651.8	-KKN-YSLFT-DSETGNSSKYYNT-ALF-	223
96ZM751.3	-RRQ-D	212
94CY017.41	-TQYSRVLDESENKNTSGSNTLYNTTFE	216
94IN476.104	-KR-EYRPLNENSSSNYSEYINTF-	208
020020 1	PIPIHYCAPAGYAILKCNEKNFTGTGSCKNVSTVQCTHGIKPVVSTQLLLNGSLAEGE.I	272
93BR20.1 92NG083.2	ED.	268
90CF056.1		263
	N	271
92RW009.6	-L	279
92NG003.1	KD	272
93BR029.4	F	275
94CY032.3	N-T-NP-HEG	282
96ZM651.8	N-T-NP-NE	271
96ZM751.3	FKDPR-NSA	276
94CY017.41		267
94IN476.104	KDE1-NPE	207
93BR20.1	VIRSQNISDNAKTIIVHLNESVQINCTRP.NNNTRKRISLGPGRVFYTTGEIIGDIRKAH	331
92NG083.2	RË-FTT-VQN-IËIS-PIQAADQ	327
90CF056.1	ITKAQ-KTP-N-TQ-TS-HA-A-DQ	322
92RW009.6	IETNQTSSVHIQAADVQ-Y	330
92NG003.1	E-LTVQKTIGS-RIQAA	332
93BR029.4	IS-PIA	331
94CY032.3	KTT-NQ-AKA-KGTSVHILTW-AQ	334
96ZM651.8	IE-LTN-VQQS-RIQTADQ	341
96ZM751.3	IK-MTIE-VSVRIQTANQ-Y	330
94CY017.41	METNNQFTKP-L-T-IS-RFQANQ	334
94IN476.104	ITET	326

Fig. 21-1

		200
	CNVSGTQWRNTLAKVKAKLGSYFPNAT.IKFNSSSGGDLEITRHNFNCMGEFFYCNTDEL	390
93BR20.1	CNVSGTQWRNTLAKVKAKLGSYFPNAI.IRFNSSSGGBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	386
		381
		390
92RW009.6	-T-NK-NRQAESHE-1-1-1-RW	385
		390
		393
94CY032.3	IND-NDKVISEE-KRLKAFFV-	400
		389
96ZM751.3	I-R-N-TKRE-RNREHKN-1-KP I-EGK-NQR-GERKKSAPT-SRSK- INK-L-NDQAEQ-REKKKI-TNPTLSA	393
9401017.41	INK-L-NDQAEQ-REKKKT-IN	385
94IN476.104	I-ESN-IKQE-GK- Ald: K 2	
	THE THE TARREST AND AND A COLD	434
020020 1	FNDTKFNDTGFNGTITLPCRIKQIVNMWQEVGRAMYANPIAGNI	
		428
92NG083.2		432
90CF056.1		
		440
92RW009.6	STWSKRNGIWQSN-IBBN-	425
92NG003.1	K &	429
93BR029.4		
		444
94CY032.3	STH	444
96ZM651.8	-SINYTENNTDGTPR1	437
96ZM751.3	GTFNGTNTSNDRS-S-UQ	446
94CY017.41	GTWWNNGTWNGPYTPNN15-1	437
	GTYNGTDMPTYNGTNSSSDI-MR-FI-I-KPE	43,
94IN476.104		
	TCNSNITGLLLTRDGGLNSTNETFRPGGGNMKDNWRSELYKYKVVEIEPLGVAP	488
93BR20.1	TCNSNITGLLTRDGGLNSTNETFRPGGGNMKDNWRSELIKIKVVEIEFLGVAL	
_	X NDC TE	484
92NG083.2	V-KKT	487
90CF056.1	V-KII-ENA-AENYD-RKI	495
92RW009.6	S-VI-K-KI-	480
92NG003.1	-RV-N-GND-R	484
93BR029.4		497
94CY032.3	N-S-D11	503
96ZM651.8		
		493
96ZM751.3	K-TII	500
94CY017.41	K-TIIN-GN	492
94IN476.104	-EKI	472
J41N4/0.101	_	
J41N470.101		548
	TVA V DOLL V DED DAVCI CALFI GELGA AGSTMGA ASITLT VO AROLLSGI V QQQSNLLRA	548
93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA	548 544
	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA	
93BR20.1 92NG083.2	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-REK	544 547
93BR20.1 92NG083.2 90CF056.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KVA-V	544 547 555
93BR20.1 92NG083.2	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KVA-V	544 547
93BR20.1 92NG083.2 90CF056.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KM-S	544 547 555 540
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-RE-KV	544 547 555 540
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-RE-KV	544 547 555 540 544
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 553
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 553 560
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 553
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 553 560 552
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 608 604 607
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 556 563 553 560 552 608 604 607 615
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600 604
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600 604 616
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600 604
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 608 604 615 600 616 623
93BR20.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 556 563 553 560 552 608 604 615 600 616 623 613
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KW	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600 604 616 623
93BR20.1 92NG083.2 90CF056.1 92NG009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KW	544 547 555 540 556 553 553 560 552 608 604 615 600 604 616 623 623 620
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 96ZM751.3 96ZM751.3 94CY017.41	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KW	544 547 555 540 556 563 553 560 552 608 604 615 600 616 623 613
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 608 604 607 615 600 616 623 613 620
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-RE-K	544 547 555 540 544 556 563 553 560 552 608 604 615 600 604 616 623 613 620
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM651.8 96ZM751.3 96ZM751.3 96ZM751.3 94CY017.41	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-RE-K	544 547 555 540 556 563 553 560 552 608 604 615 600 616 623 613 620 612
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 556 553 553 560 552 608 604 615 623 620 612 668
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 556 563 553 560 552 608 604 615 600 616 623 613 620 612
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 552 608 604 607 615 600 616 623 613 620 612
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KVVA-V	544 547 555 540 544 556 563 553 560 552 604 607 615 6004 616 623 613 620 661 664 667 675
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG03.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 94IN476.104	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 556 563 553 560 552 608 607 615 600 616 623 613 620 612 668 664 667 660
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 544 556 563 553 560 552 604 607 615 6004 616 623 613 620 661 664 667 675
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 94IN476.104 93BR20.1 92NG083.2 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.8 96ZM651.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-K	544 547 555 540 556 553 556 552 608 604 615 600 616 623 613 620 612 664 667 676 676 676 676 676 676 676
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 93BR20.1 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 552 604 607 615 600 616 623 612 664 667 675 6664 676
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR029.4 94CY032.3 96ZM751.3 96ZM751.3 96ZM751.3 96ZM751.3 96ZM751.3 96ZM751.3 96ZM751.3 94CY017.41 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 556 553 556 552 608 604 615 600 616 623 613 620 612 664 667 676 676 676 676 676 676 676
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 93BR20.1 94CY017.41 94IN476.104 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 544 556 563 552 604 607 615 6004 616 623 613 620 616 675 664 675 664 676
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG003.1 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG003.2 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 93BR20.1 94CY032.3 96ZM651.8 96ZM603.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 544 556 563 553 560 604 607 600 604 616 623 613 6202 664 6675 6664 675 668 675
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG083.1 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 540 556 563 553 560 604 615 600 604 616 623 613 620 612 668 664 6675 666 676 6872 688
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG083.1 94CY017.41 94IN476.104 93BR20.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1 92NG083.2 90CF056.1	TKAKRQVVKRERRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQSNLLRA -R-R-R-E-KV	544 547 555 544 556 563 553 560 604 607 600 604 616 623 613 6202 664 6675 6664 675 668 675

Fig. 21-2

93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	LWYIKIFIMIVGGLIGLRIVFTVLSIVNRVRKGYSPLSFQTHIPSPRE.PDRPEGIEEGGR	727 723 726 734 719 723 736 742 731 739
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	GEQGKDRSVRLVTGFLALAWDDLRNLCLFSYRHLRDFILIAARIVDRGLKRGW DRTSSHRLVT-ELLGRSSLKGLRL DRNPVVS-SLLLVV-T-ELLGRR DRG-IS	780 783 779 794 776 789 802 780 799
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	EALKYLGNLTQYWGQELKNSAISLLNATAIAVAEWTDRVIEALQRAGRAILNIPRRIRQG -GW-LLRN-DTIT-NGVAYV-TW-L	840 843 839 854 839 836 849 862 840 859
93BR20.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4 94CY032.3 96ZM651.8 96ZM751.3 94CY017.41	LERALL1 8461 849 FS1 845 F-AQ1 8601 8421 855 F-T1 868 F-AQ1 8461 865 F-AQ1 846	

NEF	
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	MGGKWSKSSIVGWPAIRERMRRTPPTPP.AAE GVGAVSQDLERRGAIT 4 QI-QV R-DV 4 RMG-STAEVR-DV- 4 SC-PVL-Q-EAPA-H 4 IVI-Q
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	
93BR020.1 92NG083.2 90CF056.1 92RW009.6	SSNTRANNPDLAWLEAQEED.EVGFPVRPQVPLRPMTYKGAVDLSHFLKEKGGLEGLIYS 100 ATCSDA-FF
92NG003.1 93BR029.4 94CY032.3 96ZM651.8	AQTCQ-NSQA-FF
96ZM751.3 94CY017.41 94IN476.104	STA-CEGS-FF
93BR020.1 92NG083.2 90CF056.1 92RW009.6 92NG003.1	KRRQEILDLWVYHTQGYFPDWQNYTPGPGIRYPLTMGWCFKLVPVDPEEVEKANEGENNC 160 N
93BR029.4 94CY032.3 96ZM651.8 96ZM751.3	-KDNT-FFRMA-I-EKS 16: -K
94CY017.41 94IN476.104 93BR020.1	QK-DM
92NG083.2 90CF056.1 92RW009.6 92NG003.1 93BR029.4	ICRV-R-N-SRLLK-C1 207LBGRM-KT-LVKK-C1 206LRKHHHLK-C1 207ICLA-RV-RS-RQK-C1 206
94CY032.3 96ZM651.8 96ZM751.3 94CY017.41 94IN476.104	IERKYK-VLF-K-C1 219QD-DHRKHHK-MLK-C1 206IIRR-KSRMLK-C1 207ICVD-PERRRSRLK-C1 217